

THE FLORA OF THE TOWN OF SOUTHOLD, LONG
ISLAND AND GARDINER'S ISLAND

BY STEWART H. BURNHAM AND ROY A. LATHAM

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THE FLORA OF THE TOWN OF SOUTHOLD, LONG ISLAND AND GARDINER'S ISLAND

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The town of Southold is at the eastern end of the north shore of Long Island, extending westward for twenty miles through the villages of Orient, East Marion, Greenport, Southold, Peconic, Cutchogue to Mattituck and Laurel. The topography of the town affords a pleasing variation. On the north, paralleled with the coast of Long Island Sound, are rolling plains and hillocks; now forested, now barren, or broken by low-lying necks of sandy beaches and inlets. On the south, facing the bays and harbors, are extensive salt meadows drained by numerous tidal creeks: the marshes bordered, here and there, by a growth of cedar and hardwood. Between the waterways and tidal creeks sandy beaches extend far out: such areas often being covered with sprawling red cedars, pitch pine and beach plum shrubs. On one of these peninsulas at Orient over seventy-five species of lichens have been found, growing either on the low trees or on the ground: and on a single prostrate cedar fourteen species were found. Fertile, low, level farms lie principally through the center of the town of Southold. Among the more common plants found throughout the town but not known to occur at Orient, are: Skunk-cabbage, beech, witch-hazel, trailing arbutus and mountain laurel. These plants are found at Greenport, six miles west of Orient: and the local flora of these two places seem strangely different.

Gardiner's Island is situated ten miles southeast of Orient and three miles north of the Hampton shore. The flora is quite similar to that found about Orient; excepting the abundance of

seaside knotweed, sea purslane, sea poppy, New England aster and Scotch thistle. The island is still wooded with the magnificent first-growth oak and beech forests: interposed with high rolling plains and rich luxuriant lowlands, side by side.

Roy A. Latham of Orient, from May 25, 1909, until the present time, collected the following plants: and many of the specimens passed through my hands while in the State Botanist's office at Albany, New York. The major part of the species here listed were collected between Orient and Greenport; where much of the region remains in its original state. A few of the best of the specimens are preserved in the New York State Herbarium; some of the poorer ones were saved; "scrappy" ones were consigned to the waste basket; and several fungi were left unnamed or in doubt.

The arrangement of the list accords with Dr. Smith Ely Jelliffe's, *The Flora of Long Island*, 1899. The nomenclature of the Myxomycetes follows Dr. Thomas H. Macbride's, *North American Slime-Moulds*; and that of the Algae, Dr. Bradley M. Davis's, *A Catalogue of the Marine Flora of Woods Hole and Vicinity*. The nomenclature of the Fungi in most instances follows P. A. Saccardo's, *Sylloge Fungorum*: and the authors are under great obligation to Dr. Charles H. Peck, State Botanist of New York, for helping solve many difficult problems among the Higher Basidiomycetes. The nomenclature of the Lichens conforms with a modification of the Nylander system; that of the Hepaticae, follows Dr. A. W. Evans: and that of the Musci, Dr. A. J. Grout's, *Mosses with Hand-lens and Microscope*. The nomenclature of the ferns and flowering plants follows the last edition of Dr. N. L. Britton and A. Brown's, *An Illustrated Flora of the Northern States and Canada*.

It has seemed best not to arrange the long list of cryptogams according to families and increase the length of this article: but to list the species under botanical orders alphabetically. The ferns and phanerogams are arranged according to families: but the species are listed in alphabetical order.

INSECT GALLS*

Acarus Serotinae Beutm.—Wild Cherry Pouch Gall.
Acraspis erinacei Walsh—Oak Hedgehog Gall.
Amphibolips confluentus Harr.—Oak Apple.
Andricus futilis O. S.—Oak Wart Gall on leaves of *Quercus alba*.
A. palustris O. S.—Succulent Oak Gall on leaves of *Quercus palustris*.
A. petiolicola Bass.—Oak Petiole Gall on leaves of *Quercus alba* and *Q. velutina*.
A. punctatus Bass.—Oak Knot Gall.
A. seminator Harr.—Oak Seed Gall.
Asteromyia rubra Felt—On leaves of *Solidago bicolor*.
Aulax tumidus Bass.—Lettuce Tumor Gall.
Biorhiza forticornis Walsh—Oak Fig Gall on twigs of *Quercus alba*.
Cecidomyia Caryaecola O. S.—Hickory Seed Gall.
C. holotricha O. S.—Hickory Onion Gall.
C. niveipila O. S.—Oak Fold Gall.
C. Nyssaecola Beutm.—On leaves of *Nyssa sylvatica*.
C. (?) ocellaris Comstock—Maple Spot Gall on leaves of *Acer rubrum*.
C. sanguinolenta O. S.—Hickory Cone Gall.
C. Serotinae O. S.—Wild Cherry Bud Gall.
Cincticornia pilulae Walsh—Oak Pill Gall on leaves of *Quercus velutina*.
Cynips Pisum Fitch—Oak Pea Gall.
Cystiphora canadensis Felt—On leaves of *Nabalus*.
C. viburnifolia Felt—On leaves of *Viburnum acerifolium* and *V. dentatum*.
Dasyneura Galii Felt—On flower buds of *Galium*.
D. Salicifolia Felt—On young willow leaves.
Diastrophus Cuscutaeformis O. S.—Blackberry Seed Gall.
D. nebulosus O. S.—Blackberry Knot Gall.
D. niger Bass.—On leaves of *Potentilla canadensis*.
Dryophanta polita Bass.—Polished Oak Gall.
Erineum fagineum Pers.—Beechleaf Mite Gall.
Eriophyes abnormis Garman—A mite gall on leaves of *Tilia americana*.
E. Nyssae Trotter—On leaves of *Nyssa sylvatica*.
E. Querci Garman—On leaves of *Quercus velutina*.
Gnorimoschema gallaesolidaginis Riley—On stems of *Solidago serotina*.
Holcaspis globulus Fitch—Oak Bullet Gall.
Hormaphis Hamamelidis Fitch—Witch Hazel Cone Gall.
H. spinosus Shiner—Spiny Witch Hazel Gall.
Hormomyia Crataegifolia Felt—On leaves of *Crataegus*.
Itionida foliara Russ. & Hook.—On margin of leaves of *Quercus velutina*.
Lasioptera farinosa Beutm.—On leaf veins of *Rubus*.
L. Lycopi Felt—On stems of *Lycopus*.
L. virginica Felt—On stems of *Triadenum virginicum*.
L. Vitis O. S.—Grape-vine Tomato Gall.
Nematus pomum Walsh—Willow Apple Gall.
Neolasioptera Erigerontis Felt—On stems of *Leptilon canadense*.

* The majority of these galls were named by Dr. E. P. Felt, state entomologist of the state of New York.

N. vitinea Felt—On petioles of grape leaves.
Neuroterus batatus Fitch—Oak Potato Gall on twigs of *Quercus alba*.
N. majalis Bass.—On leaves of *Quercus alba*. *
Obolodiplosis Robiniae Hald.—On leaves of *Robinia Pseudo-Acacia*.
Oligotrophus salicifolius Felt—On leaves of *Salix discolor*.
Pachypsylla Celtidis-gemma Riley—Hackberry Nodule Gall.
P. Celtidis-mamma Riley—Hackberry Nipple Gall.
Pemphigus Populicaulis Fitch—Poplar Stem Gall.
P. Rhois Fitch—Sumac Tomato Gall on leaves of *Rhus glabra*.
Phylloxera Caryaecaulis Fitch—Hickory Louse Gall.
P. Caryae-globuli Walsh
P. vastatrix Planch.—Grape Phylloxera.
P. vitifoliae Fitch
Rhabdophaga Salicifolia Felt—On leaves of *Spirea latifolia*.
Rhodites bicolor Harr.—Spiny Rose Gall.
R. dichlocerus Harr.—Long Rose Gall.
R. globosus Beutm.—Globular Rose Gall.
R. ignota O. S.—Mealy Rose Gall.
R. verna O. S.—Knotty Rose Gall.
Rhopalomyia anthophila O. S.—On leaves of *Solidago*.
R. capitata Felt—On stems of *Solidago*.
R. lateriflora Felt—On stems of *Aster ericoides*.
R. racemicola O. S.—On flowers of *Solidago rugosa*.
Sackenomyia viburnifolia Felt—On leaves of *Viburnum dentatum*.
Solenozopheria Vaccinii Ashm.—Huckleberry Gall on stems of *Gaylussacia baccata*.
Trypeta polita Lw.—Goldenrod Gall.

THALLOPHYTA

MYXOTHALLOPHYTA

MYXOMYCETES

Arcyria cinerea (Bull.) Pers.—On rotten wood of oak.
A. denudata (L.) Sheldon—On hickory and cherry.
Ceratiomyxa fruticulosa (Muell.) Macbr.—On rotten wood.
Fuligo ovata (Schaeff.) Macbr.—On old oak trunks.
Hemitrichia serpula (Scop.) Rost.—On old hickory wood.
H. vesparium (Batsch) Macbr.—On old hickory wood.
Lycogala epidendrum (Buxb.) Fr.—On pine stumps, hickory and oak.
Plasmodiophora Brassicae Woron.—On roots of *Brassica oleracea*; determined at
 Bureau of Plant Industry, Washington.
Reticularia Lycoperdon Bull.—On *Sassafras Sassafras*.
Stemonites Smithii Macbr.—On old logs.
Trichia favoginea (Batsch) Pers.—On old wood of *Robinia Pseudo-Acacia*.

EUTHALLOPHYTA

EUPHYCEAE*

Agardhiella tenera (Ag.) J. Ag.
Ahnfeltia plicata (Huds.) Fr.

* The marine algae were mostly determined by Dr. M. A. Howe and are preserved in the Herbarium of the New York Botanical Garden.

Anabaena torulosa (Carm.) Lag.
Antithamnion Pylaisaei (Mont.) Kjellm.
Ascophyllum nodosum (L.) LeJolis
Callithamnion Baileyi Harv.
C. byssoides Arn.
Ceramium fastigiatum Harv.
C. rubrum (Huds.) Ag.
C. tenuissimum (Lyngb.) J. Ag.—Greenport.
Chaetomorpha Linum (Müll.) Kütz.
Champia parvula (Ag.) Harv.
Chlorococcum humicola (Naeg.) Rabenh.—A fresh-water alga on a piece of wood.
Chondria tenuissima (Good. & Woodw.) Ag.
Chondrus crispus (L.) Stackh.
Chorda filum (L.) Stackh.
Chordaria flagelliformis (Müll.) Ag.
Cladophora arcta (Dillw.) Kütz.
C. expansa (Mert.) Kütz.
C. flexuosa (Griff.) Harv.
C. gracilis (Griff.) Kütz.
Corallina officinalis L.
Cystoclonium purpurascens (Huds.) Kütz.
Dasya pedicellata Ag.
Delesseria sinuosa (Good. & Woodw.) Lamour.
Dermatolithon pustulatum (Lamour.) Fosl.—On leaves of *Zostera*.
Desmarestia aculeata (L.) Lamour.
D. viridis (Müll.) Lamour.
Dictyosiphon foeniculaceus (Huds.) Grev.
Ectocarpus confervoides (Roth) LeJolis
E. fasciculatus Harv.
E. siliculosus (Dillw.) Ag.
Enteromorpha compressa (L.) Grev.
E. intestinalis (L.) Grev.
E. linza (L.) J. Ag.
E. percursa (Ag.) J. Ag.
E. plumosa Kütz.
Epilithon membranaceum (Esp.) Heyd.
Fucus evanescens Ag.
F. spiralis L.
F. vesiculosus L.
Gracilaria confervoides (L.) Grev.
Gymnogongrus Torreyi (Ag.) J. Ag.—Dr. Howe says: “probably only a flattened variety of *Ahnfeltia plicata* (Huds.) Fr.”
Halothrix lumbicalis (Kütz.) Reinke—On leaves of *Zostera*.
Hildebrandia prototypus Nardo
Hypnea musciformis (Wulf.) Lamour.
Isactis glauca Thuret
Laminaria Agardhii Kjellm.
L. digitata (L.) Lamour.

Leathesia difformis (L.) Aresch.—Probably the young thalli on *Zostera*.
Lithophyllum pustulatum (Lamour.) Fosl.
Lomentaria uncinata Menegh.
Melobesia Lejolisii Rosan.—On leaves of *Zostera*.
Mesogloia divaricata (Ag.) Kütz.
Monostroma leptodermum Kjellm.
M. undulatum Farlowii Fosl.
Petalonia fascia (Müll.) Kütz.
Phyllophora membranifolia (Good. & Woodw.) J. Ag.
Polyides rotundus (Gmel.) Grev.
Polysiphonia elongata (Huds.) Harv.
P. Harveyi Bailey
P. nigrescens (Dillw.) Grev.
P. Olneyi Harv.
P. urceolata (Lightf.) Grev.
P. urceolata formosa (Suhr) J. Ag.
P. variegata (Ag.) Zanard.
Punctaria latifolia Grev.
Pylaiella littoralis (L.) Kjellm.
Rhodermis Georgii (Batt.) Collins—On leaves of *Zostera*.
Rhodomela subfusca (Woodw.) Ag.—Also the red form, approaching *Rhodomela Rochei* Harv.
Rhodymenia palmata (L.) Grev.
Sargassum Filipendula (Ag.) J. Ag.
Scytosiphon lomentarius (Lygyb.) J. Ag.
S. lomentarius complanatus Rosev.
Spermothamnium Turneri (Mert.) Aresch.—Attached to the base of *Polysiphonia elongata*.
Sphaerelaria cirrhosa (Roth) Ag.
Spyridia filamentosa (Wulf.) Harv.
Sterrocolax decipiens Schmitz.—"Abundant on *Gymnogongrus Torreyi*, which fact may be interpreted as strengthening the idea that *G. Torreyi* is only a form of *Ahnfeltia plicata*."*
Stilophora rhizodes (Ehrh.) J. Ag.
Ulothrix flaccida (Dillw.) Thuret
Ulva Lactuca L.
U. Lactuca latissima (L.) DC.

FUNGI

SCHIZOMYCETES

Bacillus amylovorus (Burr.) DeToni—On leaves of *Pyrus communis*.

EUMYCETES

PHYCOMYCETES

Bremia Lactucae Regel—On *Lactuca* leaves.

Cystopus candidus (Pers.) Lev.—On *Bursa Bursa-pastoris* and other mustards.

* Some Midwinter Algae of Long Island Sound, by M. A. Howe in *Torreya* 14: 97-101. June, 1914 (Contr. N. Y. Botanical Garden No. 169).

Mucor Mucedo L.—On beet stored in a cellar; determined at Cornell by Prof. Fitzpatrick.

Rhizopus nigricans Ehrenb.—On stale bread.

ASCOMYCETES (EXCLUDING PYRENOMYCETES)

Belonidium aurelia (Pers.) DeNot.—On old wood of *Robinia Pseudo-Acacia*; specimens in N. Y. State Herbarium.

Bulgaria inquinans (Pers.) Fr.

Chlorosplenium aeruginosum (Oeder) DeNot.—On old wood of *Acer rubrum*.

C. Schweinitzii Fr.

Coccomyces Juniperi Karst.—On bark of *Juniperus virginiana*; specimens in N. Y. State Herbarium. (*Colopoma Juniperinum* C. & P.)

Dasyscypha calcycina (Schum.) Fckl.—On bark of *Pinus rigida*.

D. virginea (Batsch) Fckl.—On oak.

Discina orbicularis Pk.—On old wood of hickory and cherry.

Durella corrugata (C. & P.) Sacc.—On oak twigs; specimens in N. Y. State Herbarium.

Exoascus deformans (Berk.) Fckl.—On leaves of *Amygdalus persica*.

E. varius Atk.—On leaves of *Padus virginiana*.

Geoglossum velutipes Pk.—On ground in woods.

Geopyxis hesperidea Cke. & Pk.—On logs; specimens in N. Y. State Herbarium.

Gyromitra esculenta (Pers.) Fr.—Rare in cedar woods at Orient.

Helotium citrinum (Hedw.) Fr.—On old oak and hickory wood.

Helvella macropus (Pers.) Karst.

Humaria granulata (Bull.) Sacc.—On cow dung and old potato stems; specimens in N. Y. State Herbarium.

Lachnea scutellata (L.) Gill.—On old oak wood.

L. setosa (Nees) Gill.—East Marion on rotten stumps.

Lecanidion indigoticum (C. & P.) Sacc.—Specimens in N. Y. State Herbarium.

Leotia lubrica (Scop.) Pers.

Mollisia melaleuca (Fr.) Sacc.—On old wood of *Robinia Pseudo-Acacia*.

Morchella conica Pers.

M. deliciosa Fr.

M. esculenta (L.) Pers.—The morels all grow in sandy soil, at Orient.

Phaeangella deformata (Pk.) Sacc. & D. Sacc.—Growing in lines on bark of *Juniperus virginiana*; specimens in N. Y. State Herbarium.

Propolis faginea (Schrad.) Karst.—On old wood of willow and hickory; specimens in N. Y. State Herbarium.

Rhytisma acerinum (Pers.) Fr.—Greenport on leaves of *Acer rubrum*.

R. decolorans Fr.—Greenport on leaves of *Xolisma ligustrina* and *Vaccinium*.

R. Solidaginis Schw.—On leaves of *Solidago*.

R. Vitis Schw.—On leaves of grape; determined by Mrs. F. W. Patterson; specimens in N. Y. State Herbarium.

Sarcoscypha occidentalis Schw.

Sclerotinia fructigena (Pers.) Schroet.—On fruit of *Amygdalus persica*.

S. Libertiana Fckl.—Determined at Bureau of Plant Industry.

Tapesia fusca (Pers.) Fckl.—On oak.

ASCOMYCETES (PYRENOMYCETES)

Botryosphaeria Berengeriana (DeNot.)—On twigs of *Toxicodendron radicans*.
Calosphaeria Myricae (C. & E) E. & E.—On dead *Myrica carolinensis* branches; reported in N. Y. State Mus. Bull. 167: 24. 1913.
Coronophora angustata Fckl.—On dead *Myrica carolinensis* trunks; reported in N. Y. State Mus. Bull. 157: 24. 1912.
Daldinia concentrica (Bolt.) Ces. & DeNot.—On oak and hickory.
D. vernicosa (Schw.) Ces. & DeNot.—On old wood of *Fagus grandiflora*.
Diaporthe parasitica Murrill—On *Castanea dentata*.
Diatrype albopruinosa (Schw.) Cke.—On *Fagus grandiflora*.
D. stigma (Hoffm.) Fr.—On old wood of oak.
Diatrypella betulina (Pk.) Sacc.—Greenport.
D. prominens (Howe) E. & E.—On *Platanus occidentalis*.
D. Rhoidis (Schw.) E. & E.—On *Toxicodendron radicans*.
Dothidea Baccharidis Cke.—On dead branches of *Baccharis halimifolia*; determined by Mrs. F. W. Patterson; reported in N. Y. State Mus. Bull. 167: 26. 1913.
Eutypella clavulata Cke.—On dead branches of *Ailanthus glandulosa*.
E. longirostris Pk.—On dead twigs of *Robinia Pseudo-Acacia*.
E. stellulata (Fr.) Sacc.—On hickory, oak, *Amelanchier* and *Robinia Pseudo-Acacia*.
Eutypa spinosa (Pers.) Tul.—On old wood of oak.
Gloniopsis australis (Duby) Sacc.—Old wood of oak, *Betula populifolia*, *Sassafras Sassafras* and *Vitis*; specimens in N. Y. State Herbarium.
Glonium parvulum (Ger.) Sacc.—Decorticated wood; reported in N. Y. State Mus. Bull. 150: 45. 1911.
Herpotrichia diffusa (Fckl.) E. & E.—On decaying wood of *Robinia Pseudo-Acacia*; reported in N. Y. State Mus. Bull. 150: 45. 1911.
Hypoxylon atropunctatum (Fckl.) Cke.—On old wood of oak.
H. coccineum Bull.—On old wood of oak and *Malus Malus*.
H. fuscopurpureum (Schw.) Berk.—On old wood of hickory.
H. fuscum (Pers.) Fr.—On old wood of *Fagus grandiflora*.
H. Sassafras (Schw.) Berk.—On old wood of *Sassafras Sassafras*.
H. serpens (Pers.) Fr.—Greenport on hickory and *Quercus alba*; specimens in N. Y. State Herbarium.
Hysteriographium Mori (Schw.) Rehm—On old wood of oak, *Platanus occidentalis*, *Malus Malus*, *Ligustrum vulgare* and *Baccharis halimifolia*.
Hysterium Thujarum Cke. & Pk.—Determined by Dr. F. J. Seaver.
Hysterium pulicare Pers.—On old wood of *Robinia Pseudo-Acacia* and *Rhus*; specimens in N. Y. State Herbarium.
Massaria inquinans (Tode) Fr.
M. vomitoria B. & C.—On *Acer rubrum*.
Nectria cinnabarina (Tode) Fr.—Also the conidial form, *Tuberularia vulgaris* Tode on dead wood of many species of trees and shrubs.
N. episphaeria (Tode) Fr.—Parasitic on *Diatrype stigma*.
Nummularia clypeus (Schw.) Cke.—On oak stump.
N. discreta (Schw.) Tul.—On old branches of *Malus Malus*.
Phyllachora graminis (Pers.) Fckl.—On leaves of grasses.
Plowrightia morbosa (Schw.) Sacc.—Branches of *Prunus maritima* and cultivated quince.

Rosellinia mutans (C. & P.) Sacc.—On hickory; specimens in N. Y. State Herbarium.

R. subiculata (Schw.) Sacc.—Greenport on *Fraxinus americana*.

Sphaerella Fragariae (Tul.) Sacc.—On leaves of *Fragaria virginiana*.

Ustulina vulgaris Tul.—On oak stumps.

Valsa ambiens (Pers.) Fr.—On dead branches of *Fagus grandiflora*.

V. Linderae Pk.—On dead twigs of *Benzoin aestivale*; specimens in N. Y. State Herbarium.

V. rhoophilis C. & E.—On dead branches of *Rhus*; specimens in N. Y. State Herbarium.

Xylaria polymorpha (Pers.) Grev.—On hickory stump.

HYPOMYCETES

Alternaria Brassicae (Berk.) Sacc.—On old plants of *Ricinus communis* and *Brassica oleracea*; determined at Cornell University.

Cercospora leptosperma Pk.—On leaves of *Aralia nudicaulis*; determined by Dr. H. D. House.

Illosporium roseum (Schreb.) Mart.—On *Physcia stellaris*.

Macrosporium commune Rabenh.—On leaves of cucumber and watermelon.

Microstroma Juglandis (Bereng.) Sacc.—On hickory leaves.

Monilia Peckiana S. & V.—On leaves of *Gaylussacia baccata*; specimens in N. Y. State Herbarium.

Oospora scabes Thaxter.—Common and very bad on potatoes.

Ovularia obliqua (Cke.) Oud.—On leaves of *Rumex*.

Pilacre faginea (Fr.) B. & Br.

Piricularia grisea (Cke.) Sacc.—On leaves of *Chaetochloa italicica*.

Polythrincium Trifolii Kze.—On leaves of *Trifolium pratense*; determined by Dr. J. C. Arthur.

Ramularia Armoraciae Fckl.—On leaves of *Armoracia Armoracia*.

R. lineola Pk.—On leaves of *Leonodon Taraxacum*.

R. Plantaginis E. & M.—The var. *nigromaculans* Pk., on leaves of *Plantago major*.

Rhinotrichum ramosissimum B. & C.—On cherry limbs.

Streptothrix fusca Cda.—On *Juniperus virginiana*; specimens in N. Y. State Herbarium.

MELANCONIALES

Coryneum pulvinatum K. & S.—On dead branches of *Tilia americana*.

C. pustulatum Pk.—On dead branches of *Castanea sativa*; specimens in N. Y. State Herbarium.

Gloeosporium intermedium brevipes Sacc.—On leaves of the cultivated rubber-plant. (*Gloeosporium elasticae* Cke. & Mass.)

Pestalozzia adusta E. & E.—On leaves of *Padus virginiana*.

P. funerea Desm.—On dead twigs of *Juniperus virginiana*.

P. longiseta Speg.—On leaves of *Rubus* and *Aronia*. The three species of *Pestalozzia* are reported in N. Y. State Mus. Bull. 157: 30. 1912.

Steganosporium fenestratum (E. & E.) Sacc.—On dead branches of *Clethra alnifolia*; reported in N. Y. State Mus. Bull. 157: 34. 1912.

SPHAEROPSIDEAE

Amerosporium oeconomicum Ell. & Tracy.—On bean leaves; determined by Mrs. F. W. Patterson.

Ascochyta Rhei E. & E.—On leaves of *Rheum rhabonticum*; reported in N. Y. State Mus. Bull. 157: 22. 1912.

Camarosporium abnorme (Pk.) Sacc.—On stems of *Celastrus scandens*.

C. Maclurae Pk.—On dead branches of *Toxylon pomiferum*; Orient is the type station for this species; reported and described in N. Y. State Mus. Bull. 157: 23. 1912.

Cytospora chrysosperma (Pers.) Fr.—On dead branches of poplar.

C. Salicis (Cda.) Rabenh.—On dead willow branches; reported in N. Y. State Mus. Bull. 157: 25. 1912.

Dendrophoma Tiliae Pk.—On *Tilia americana*; specimens in N. Y. State Herbarium.

Diplodia ruborum (Schw.) Sacc.—On *Rubus*.

D. virginiana Cke. & Rav.—On dead twigs of *Juniperus virginiana*.

Haplosporella Ribis Sacc.—On dead stems of *Grossularia*; reported in N. Y. State Mus. Bull. 157: 27. 1912.

Hendersonia Grossulariae Oud.—On dead and dying stems of *Grossularia reclinata*; reported in N. Y. State Mus. Bull. 157: 28. 1912.

H. pubensis Cke.—On dead stems of *Sambucus canadensis*.

Macrophoma albifructa (Pk.) Berl. & Vogl.—On dead maple twigs.

M. Juniperina Pk.—On dead *Juniperus virginiana* twigs; Orient is the type station for this species; reported and described in N. Y. State Mus. Bull. 167: 28. 1913.

Phlyctaena septorioides Sacc.—On dead stems of *Phytolacca americana*.

Phoma ampelinum B. & C.—On grape leaves.

P. Asclepiadea E. & E.—On stems of *Asclepias syriaca*; reported in N. Y. State Mus. Bull. 167: 30. 1913.

P. Baccharidis Brun.—On dead stems of *Baccharis halimifolia*.

P. corylina (Thuem.) Sacc.—On dead stems of *Corylus*.

P. herbarum West.—On dead stems of *Lilium*, *Rheum rhabonticum* and *Solidago*.

P. moricola Sacc.—On dead twigs of *Morus*.

P. sambucina Sacc.—On dead twigs of *Sambucus canadensis*.

P. semiimmersa Sacc.—On dead branches of *Crataegus*; reported in N. Y. State Mus. Bull. 167: 30. 1913.

Phoma Smilacis Boy. & Jacz.—On dead stems of *Smilax rotundifolia*; reported in N. Y. State Mus. Bull. 157: 32. 1912.

Phyllosticta Betae Oud.—On leaves of beet.

P. circumscissa Cke.—On leaves of *Amygdalus persica*.

P. cruenta (Fr.) Kx.—On leaves of *Vagnera racemosa*; determined by Mrs. Patterson.

P. Digitalis Bell.—On leaves of *Digitalis*.

P. Iridis E. & M.—On leaves of *Iris versicolor*; determined by Mrs. Patterson.

P. Labruscae Thuem.—On leaves of *Parthenocissus tricuspidata*.

P. phomiformis Sacc.—On leaves of *Quercus alba*.

P. rhoicola E. & E.—On leaves of *Toxicodendron radicans*; reported in N. Y. State Mus. Bull. 167: 30. 1913.

P. Smilacis E. & M.—On leaves of *Smilax rotundifolia*; determined by Mrs. Patterson.

Septoria Dianthi Desm.—On leaves of *Dianthus*; reported in N. Y. State Mus. Bull. 157: 33. 1912.

S. Kalmiaecola (Schw.) B. & C.—Leaves of *Kalmia latifolia* at Greenport and East Marion.

S. Oenotherae West.—On leaves of *Oenothera*.

S. Polygonina Thuem.—On leaves of *Persicaria*.

S. Ribis Desm.—On leaves of *Ribes vulgare*.

S. Rubi West.—On leaves of *Rubus*.

Sphaeropsis Malorum Pk.—On dead branches of *Malus Malus*.

S. Peckii Sacc.—On dead twigs of *Padus virginiana*. (*Sphaeropsis anomala* Pk.)

S. Persicae E. & B.—On dead branches of *Amygdalus persica*; specimens in N. Y. State Herbarium.

S. Tiliacea Pk.—On dead branches of *Tilia americana*.

BASIDIOMYCETES

USTILAGINACEAE

Cintractia Junci (Schw.) Trel.—On *Juncus tenuis*.

Urocystis sorosporioides Koern.—On *Thalictrum*; determined by Dr. G. P. Clinton.

Tolyposporium bullatum (Schroet.) Schroet.—Fruiting panicles of *Echinochloa Crus-galli*; determined at Bureau of Plant Industry.

Ustilago anomala Kze.—On *Tiniaaria Convolvulus*.

U. Avenae (Pers.) Jens.—On panicles of *Avena sativa*.

U. hypodytes (Schl.) Fr.—Probably on *Agropyron*; determined by Dr. Clinton, who says, "an uncommon smut for this host."

U. Maydis (DC.) Cda.—On Indian corn.

U. Tritici (Pers.) Jens.—On *Triticum*.

U. utriculosa (Nees) Tul.—On *Polygonum*.

MELAMPSORACEAE

Melampsora arctica Rostr.—On leaves of *Salix discolor*; determined by Dr. J. C. Arthur,* who says, "the most southern collection known for this species." (*Uredo Rostrupiana* Arth.)

M. Bigelowii Thuem.—Greenport on willow leaves.

Melampsoridium Betulae (Schum.) Arth.—Determined by Dr. Arthur.

COLEOSPORIACEAE

Coleosporium Solidaginis (Schw.) Thuem.—On leaves of *Aster* and *Solidago*; determined in part by Dr. Arthur and Dr. F. D. Fromme.

PUCCINIACEAE

Aecidium Majanthae Schum.—Orient on leaves of *Vagnera racemosa*.

A. Uvulariae Schw.—Orient on leaves of *Uvularia sessilifolia*.

Gymnoconia interstitialis (Schlect.) Lagh.—Orient on leaves of cultivated and wild *Rubi*.

Gymnosporangium germinale (Schw.) Kern.—The summer stage, *Roestelia aurans*. * Specimens determined by Dr. J. C. Arthur and Dr. F. D. Fromme are preserved in the Herbarium of Dr. Arthur at Purdue University, Lafayette, Indiana. The authors are indebted to Dr. Arthur, who has read the manuscript of the Rusts, and who made valuable suggestions.

tiaca Pk., on leaves of *Amelanchier*, *Crataegus* and quince. (*Gymnosporangium clavipes* C. & P.)

G. Juniperi-Virginianae Schw.—The summer stage, *Roestelia pyrata* (Schw.) Thaxt., on *Malus Malus* leaves; and the winter stage on *Juniperus virginiana* at Orient; specimens in N. Y. State Herbarium. (*Gymnosporangium macrosporus* Link.)

G. nidus-avis Thaxt.—The summer stage on leaves of *Amelanchier*, determined by Dr. Arthur; and the winter stage on *Juniperus virginiana* at Orient.

Kuehneola obtusa (Strauss) Arth.—On leaves of *Potentilla canadensis*; determined by both Dr. Arthur and Dr. Fromme.

Puccinia Asparagi DC.—On *Asparagus officinalis*.

P. Asteris Duby—On *Aster novi-belgii*; determined by Dr. Arthur.

P. Caricis-Asteris Arth.—Determined by Dr. Fromme.

P. Caricis-Solidaginis Arth.—On *Carex*; determined by Dr. Arthur.

P. Cicutae Lasch.—On leaves of *Cicuta maculata* at Orient and Greenport; determined by Dr. Arthur, who says this species has been previously collected in "three widely separated localities, Florida, Nova Scotia and Nevada."

P. coronata Cda.—On leaves of *Rhamnus cathartica* and *Nothoholcus lanatus*; determined by Dr. Arthur; also on leaves of *Avena sativa*. (*Puccinia Rhamni* (Pers.) Wetst.)

P. Cyani (Schleich.) Pass.—On *Centaurea cyanus*; determined by Dr. Arthur.

Puccinia Eleocharidis Arth.—On leaves of *Eupatorium*; determined by Dr. Arthur.

P. graminis Pers.—On leaves of grasses; the aecia on leaves of *Berberis vulgaris*.

P. Grossulariae (Pers.) Lagerh.—On *Carex virescens*; determined by Dr. Arthur.

P. Helianthi Schw.—On leaves of *Helianthus*.

P. Hieracii (Schum.) Mart.—On leaves of *Hieracium Gronovii*; determined by Dr. Arthur.

P. Malvacearum Mont.—Orient on leaves of *Malva rotundifolia* and *Althaea rosea*.

P. Menthae Pers.—On leaves of *Koellia*; determined by Dr. Fromme.

P. obscura Schroet.—On *Juncoidea campestre*; determined by Dr. Arthur.

P. orbicula Pk.—On leaves of *Nabalus trifoliatus*; determined by Dr. Arthur.

P. Peckii (DeToni) Kellerman—Orient on leaves of *Oenothera*; determined by Mrs. F. W. Patterson.

P. Pimpinellae (Strauss) Link—Orient on leaves of *Washingtonia Claytoni*.

P. Pruni-spinosae Pers.—On leaves of *Prunus avium* and *Padus virginiana*; determined by Dr. Arthur. (*Tranzschelia punctata* (Pers.) Arth.)

P. Sambuci (Schw.) Arth.—On leaves of *Carex crinita* and *C. lurida*; determined by Dr. Arthur; also the aecia on leaves of *Sambucus canadensis* at Orient.

P. Seymouriana Arth.—The aecia on leaves of *Asclepias pulchra* and the telia on *Spartina* at Orient; determined by Dr. Arthur who says, "in west-central United States the aecia are found also on *Apocynum* and *Cephalanthus*."

P. Sorghi Schw.—On leaves of sweet corn.

P. Taraxaci Plowr.—On leaves of *Leontodon Taraxacum*; determined by Dr. Arthur.

P. triticina Erikss.—On various species of *Triticum*; determined in part by Dr. Arthur. (*Puccinia Rubigo-vera* (DC.) Wint.)

P. uniporula Orton—On *Carex virescens*; determined by Dr. Fromme.

P. Violae (Schum.) DC.—On leaves of *Viola primulifolia* at Greenport; determined by Dr. Fromme.

Uromyces appendiculatus (Pers.) Fr.—On leaves of *Strophostyles helvola*; determined by Dr. Arthur. (*Nigredo appendiculata* (Pers.) Arth.)

U. Caladii (Schw.) Farl.—Greenport on leaves of *Arisaema triphyllum* and *Peltandra virginica*.

U. Lilii Clinton—On leaves of *Lilium*; determined by Dr. Arthur. (*Nigredo Lilii* (Clinton) Arth.)

U. Limonii (DC.) Lev.—On leaves of *Limonium carolinianum*; determined by Dr. Arthur.

U. Peckianus Farl.—Orient on *Distichlis spicata*. Doubtless the *Aecidium atriplicis* Shear, reported in N. Y. State Mus. Bull. 157: 21. 1912, on leaves of *Atriplex hastata* at Orient belongs here. *Aecidium atriplicis* is a rust which has only been reported on shrubby species of *Atriplex* in the arid regions of western United States.

Uromyces Silphii (Burrill) Arth.—On *Juncus tenuis*; determined by Dr. Fromme. (*Nigredo Silphii* (Burrill) Arth.)

U. Spartinae Farl.—Orient on *Spartina*; determined by Dr. Arthur.

U. Toxicodendri B. & R.—Orient on leaves of *Toxicodendron radicans*; determined in part by Dr. Arthur. (*Pileolaria Toxicodendri* (B. & R.) Arth.)

TREMELLACEAE

Exidia glandulosa (Bull.) Fr.—On old oak and trunks of other trees.

Tremella aurantia Schw.—On bark of *Juniperus virginiana*.

T. frondosa Fr.—On oak stumps.

DACYROMYCETACEAE

Calocera cornea Fr.

Dacryomyces stillatus Nees—On old pine logs.

Guepinia spathularia (Schw.) Fr.—Growing from crevices of an old log.

EXOBASIDIACEAE

Exobasidium Vaccinii (Fckl.) Woron.—On fruit of *Gaylussacia baccata*.

THELEPHORACEAE

Aleurodiscus Oakesii (B. & C.) Cke.—On the bark of living trunks of *Ostrya virginiana*.

Corticium effuscatum C. & E.—On hickory.

C. lacteum Fr.—On cherry and *Rhus*.

C. roseolum Mass.—On hickory and *Vaccinium*.

Craterellus cornucopoides (L.) Pers.—Greenport.

Hymenochaete corrugata (Fr.) Lev.—On hickory.

H. Curtissii (Berk.)—On *Quercus alba* and *Padus virginiana*. (*Stereum Curtissii* Berk.)

H. rubiginosa (Schrad.) Lev.—On oak and *Castanea sativa* logs; specimens in N. Y. State Herbarium.

H. tabacina (Sow.) Lev.—On hickory, *Myrica carolinensis* and cherry; specimens often resupinate.

Peniophora cinerea (Fr.) Cke.—On dead branches of *Betula populifolia*, *Padus virginiana* and maple.

Solenia fasciculata Pers.—On hickory.

S. ochracea Hoffm.—On rotten wood of hickory; specimens in N. Y. State Herbarium.

Stereum acerinum Pers.—On hickory and maple.

S. acerinum nivosum Rav.—On dead branches of *Juniperus virginiana*; specimens in N. Y. State Herbarium.

S. complicatum Fr.—On old limbs.

S. frustulosum (Pers.) Fr.—On oak stumps.

S. hirsutum (Willd.) Fr.—On hickory and *Nyssa sylvatica*.

S. ochraceo-flavum Schw.—On *Amelanchier*.

S. purpureum Pers.—On hickory and *Acer rubrum*; sometimes resupinate.

S. sericeum Schw.—On oak, *Myrica carolinensis* and *Nyssa sylvatica*.

S. spadiceum Fr.—On oak.

S. versiforme B. & C.—On *Hamamelis virginiana*.

S. versicolor Fr.—On oak.

Thelephora caryophyllea (Schaeff.) Pers.—In cedar woods.

T. intybacea Pers.—Greenport in woods.

T. palmata (Scop.) Fr.—The var. *americana* Pk. in woods.

T. terrestris Ehrh.—In sandy soil.

CLAVARIACEAE

Clavaria amethystina Bull.—Greenport and Orient.

C. aurea Schaeff.

C. botrytis Pers.—Greenport and Orient.

C. cinerea Bull.

C. coralloides L.—Greenport.

C. cristata Pers.—Greenport.

C. formosa Pers.

C. fusiformis Sow.

C. mucida Pers.—Rotten oak logs on Gardiner's Island.

C. muscoides L.

C. pulchra Pk.

Sparassis crispa (Wulf.) Fr.—Greenport in woods.

HYDNACEAE

Hydnnum aurantiacum (Batsch) A. & S.

H. chrysocomum Underw.—On oak.

H. farinaceum Pers.—On old hickory wood.

H. ochraceum Pers.—On cherry and *Malus Malus*; sometimes resupinate.

H. scrobiculatum Fr.—Greenport.

H. spongiosipes Pk.—In cedar woods.

H. subfuscum Pk.

H. velatum B. & C.—On hickory.

Irpex ambiguus Pk.—On pine log.

I. cinnamomeus Fr.—On oak, *Fagus grandiflora* and *Vaccinium*.

I. lacteus Fr.—On dead branches of *Ilex verticillata*.

I. mollis B. & C.—On cherry.

I. paradoxus (Schrad.) Fr.—On *Padus virginiana*.

I. sinuosus Fr.—On dead branches of *Padus virginiana*.

I. Tulipiferae Schw.—On hickory, oak, *Malus Malus* and *Baccharis halimifolia*.
Phlebia radiata Fr.

POLYPORACEAE

Boletus affinis Pk.—Sandy woods.

B. affinis maculosus Pk.

B. auriporus Pk.

B. Ballouii Pk.—Greenport; reported in N. Y. State Mus. Bull. 157: 22. 1912.

B. castaneus Bull.

B. chrysenteron Fr.

B. felleus Bull.

B. pallidus Frost

B. rubropunctus Pk.

B. scaber Fr.—Greenport.

B. subglabripes Pk.

B. subvelutipes Pk.—Sandy soil.

Daedalea confragosa rubescens (A. & S.) Pk.—On willow, *Betula populifolia*, *Nyssa sylvatica* and *Fraxinus americana*. (*Trametes rubescens* (A. & S.) Fr.)

D. quercina (L.) Pers.—On oak and *Padus virginiana*.

Daedalea unicolor (Bull.) Fr.—On hickory and oak.

Favolus canadensis Klotsch.—On dead limbs of *Fagus grandiflora*.

Fomes annosus Fr.—On *Juniperus virginiana*; specimens in N. Y. State Herbarium.

F. applanatus (Pers.) Fr.—On hickory and cherry.

F. carneus Nees—On *Juniperus virginiana*.

F. rimosus Berk.—On *Robinia Pseudo-Acacia*; specimens in N. Y. State Herbarium.

F. salicinus (Pers.) Fr.—On willow.

Ganoderma pseudoboletus (Jacq.) Murrill—On oak.

Gloeoporus conchoides Mont.—On hickory and oak;

Merulius tremellosus Schrad.—On dead wood of cherry.

M. Ulmi Pk.—On dead *Myrica carolinensis*; reported in N. Y. State Mus. Bull. 157: 41. 1912.

Polyporus betulinus (Bull.) Fr.—On *Betula populifolia*.

P. brumalis (Pers.) Fr.—On oak.

P. caesius (Schrad.) Fr.—On *Malus Malus*.

P. chioneus Fr.—On oak and *Padus virginiana*.

P. cupulaeformis B. & C.—On *Fagus grandiflora*.

P. epileucus Fr.—On oak.

P. fumosus (Pers.) Fr.

P. giganteus (Pers.) Fr.—Specimens in N. Y. State Herbarium.

P. gilvus Schw.—On *Fagus grandiflora*, oak, cherry and *Xolisma ligustrina* (abnormal specimens).

P. hispidus (Bull.) Fr.—On living oak trees.

P. Spraguei B. & C.—On oak.

P. sulphureus (Bull.) Fr.—On stumps.

Polystictus circinatus Fr.—Greenport.

P. hirsutus Fr.—On hickory and oak.

P. pergamenus Fr.—On oak, cherry and *Fagus grandiflora*.

P. velutinus (Pers.) Fr.—On *Xolisma ligustrina*.

P. versicolor (L.) Fr.—On hickory and oak.

Poria attenuata Pk.—On hickory.

P. contigua (Pers.) Fr.—On *Robinia Pseudo-Acacia*.

P. ferruginosa (Schrad.) Fr.—On *Ilex verticillata*.

P. floccosa Fr.—On oak, *Sassafras Sassafras*, *Malus Malus*, *Padus virginiana* and *Acer rubrum*.

P. inermis E. & E.—On *Ilex verticillata* and *Toxicodendron radicans*; specimens in N. Y. State Herbarium.

P. nitida (Pers.) Fr.—On cherry.

P. reticulata (Pers.) Fr.—On *Juniperus virginiana*.

P. subacida Pk.

P. subacida vesiculosa (B. & C.) Pk.—Specimens in N. Y. State Herbarium.

P. vulgaris Fr.—On *Juniperus virginiana*.

Strobilomyces strobilaceus (Scop.) Berk.—Sandy woods.

Trametes cinnabarina (Jacq.) Fr.—On cherry.

T. Pini (Brot.) Fr.—On pine; specimens in N. Y. State Herbarium.

T. sepium Berk.—On willow, hickory and cherry.

T. suaveolens (L.) Fr.—On willow.

AGARICACEAE

Agaricus abruptibulbus Pk.—In cedar woods.

A. campester L.

A. micromegathus Pk.—In sandy soil.

A. Rodmani Pk.

Amanita Frostiana Pk.

A. Frostiana pallidipes Pk.

A. glabriceps Pk.

A. muscaria L.—Cedar woods.

A. muscaria formosa (G. & R.) Fr.

A. phalloides Fr.—A gray variety.

A. verna Fr.

Amanitopsis strangulata (Fr.) Roze

A. vaginata (Bull.) Roze

A. vaginata livida (Pers.) Pk.

Armillaria mellea Vahl

A. nardosmia Ellis—Greenport.

Cantharellus infundibuliformis (Scop.) Fr.

C. minor Pk.

Clitocybe brumalis Fr.—In cedar woods.

C. clavipes (Pers.) Fr.

C. dealbata Sow.

C. odora (Bull.) Fr.

C. pithyophila Fr.—Specimens in N. Y. State Herbarium.

Clitopilus abortivus B. & C.

C. albogriseus Pk.

C. orcella (Bull.) Fr.

Collybia dryophila (Bull.) Fr.

C. platyphylla Fr.

C. radicata (Relh.) Fr.—A form approaching var. *pusilla* Pk.

C. tuberosa (Bull.) Fr.—On decaying *Lactarius*; specimens in N. Y. State Herbarium.

C. velutipes (Curt.) Fr.
Coprinus micaceus (Bull.) Fr.
C. plicatilis (Curt.) Fr.
Cortinarius heliotropicus Pk.—Greenport.
Entoloma Grayanum Pk.
E. jubatum Fr.
Hygrophorus chlorophanus Fr.
H. laetus (Pers.) Fr.—Specimens in N. Y. State Herbarium.
H. miniatus Fr.
H. miniatus subluteus Pk.—Specimens in N. Y. State Herbarium.
H. psittacinus (Schaeff.) Fr.
H. sordidus Pk.—Greenport; reported in N. Y. State Mus. Bull. 157: 28. 1912.
Hypholoma appendiculatum (Bull.) Fr.
H. incertum Pk.
H. perplexum Pk.
H. sublateritium (Schaeff.) Fr.—Growing in clusters about stumps of hickory and oak.
Laccaria amethystina (Bolt.) B. & Br. (in part)—Oak woods.
L. laccata (Scop.) B. & Br.
L. trullisata (Ellis) Pk.—In clean sand. (*Clitocybe trullisata* Ellis.)
Lactarius Peckii Burl.
L. piperatus (Scop.) Fr.
L. serifluus (DC.) Fr.
L. subdulcis (Bull.) Fr.
L. theiogalus (Bull.) Fr.
L. vellereus Fr.
L. volemus Fr.
Lentinus tigrinus (Bull.) Fr.—On dead trees; the diseased form which is known as *Lentodium squamulosum* Morg.
Lenzites betulina (L.) Fr.—On oak; specimens in N. Y. State Herbarium.
L. sepiaria Fr.—On pine (poroid form), *Juniperus virginiana*, *Picea mariana* and cherry; specimens in N. Y. State Herbarium.
L. trabea (Pers.) Fr.—On pine; reported in N. Y. State Mus. Bull. 167: 27. 1913.
Lepiota americana Pk.
L. clypeolaria (Bull.) Fr.
L. naucinoides Pk.—Cultivated fields.
Marasmius androsaceus (L.) Fr.
M. biformis Pk.—Swampy places.
M. capillaris Morg.—On grass stems.
M. elongatipes Pk.
M. epiphyllus Fr.—On old leaves; reported in N. Y. State Mus. Bull. 157: 28. 1912.
M. insititius Fr.—On leaves and twigs.
M. oreades Fr.
M. ramulinus Pk.—On branches in cedar woods.
M. salignus Pk.—On leaves and twigs.
M. salignus major Pk.
M. spongiosus B. & C.—Specimens in N. Y. State Herbarium.

M. subnudus (Ellis) Pk.
M. velutipes B. & C.—On leaves.
Mycena atroalboides Pk.
M. corticola (Schum.) Fr.—On bark of *Robinia Pseudo-Acacia* and grape vines.
M. epipyterygia (Scop.) Fr.
M. galericulata (Scop.) Fr.—On logs.
M. sanguinolenta (A. & S.) Fr.—Specimens in N. Y. State Herbarium.
Omphalia campanella (Batsch) Fr.—On decaying coniferous wood and moss.
Panaeolus papilionaceus Fr.
P. retirugis Fr.—Cultivated fields.
P. semiglobatus Murrill—Determined by Dr. W. A. Murrill.
Panus rufus Fr.—On old oak wood.
P. stypticus (Bull.) Fr.—On oak and *Amygdalus persica* stumps.
P. torulosus Fr.—On *Baccharis halimifolia*.
Pholiota praecox (Pers.) Fr.
Pleurotus ostreatus (Jacq.) Fr.—On old poplar logs.
P. septicus Fr.
Pluteus cervinus (Schaeff.) Fr.
Psathyrella disseminata (Pers.) Fr.
Russula compacta Frost
R. emetica Fr.
R. foetens (Pers.) Fr.—Southold.
R. foetentula Pk.—Southold.
R. Mariae Pk.
R. obscura Rom.—Greenport.
R. pectinatoides Pk.
R. purpurina Q. & S.—Orient and Greenport; specimens in N. Y. State Herbarium.
R. virescens (Schaeff.) Fr.—Greenport and Orient.
Schizophyllum commune Fr.—On hickory, cherry, *Castanea sativa* and *Baccharis halimifolia*.
Stropharia aeruginosa (Curt.) Fr.—On decaying wood.
S. semiglobata (Bastch) Fr.—On horse manure.
Tricholoma alboflavidum Pk.
T. personatum Fr.—In oak woods.
T. piperatum Pk.—Reported in N. Y. State Mus. Bull. 167: 32. 1913.
T. resplendens Fr.
T. Russula (Schaeff.) Fr.
T. sejunctum Sow.
Trogia crispata (Pers.) Fr.—On oak.

GASTEROMYCETES

Anthurus borealis Burt—Orient in corn fields.
Bovista pilosa B. & C.—In woods and fields.
B. plumbea Pers.
Calvatia craniiformis (Schw.) Morg.—In cedar woods; reported in N. Y. State Mus. Bull. 150: 24. 1911.
C. cyathiformis (Bosc) Morg.
C. rubroflava (Cragin) Morg.—Sandy soil; reported in N. Y. State Mus. Bull. 167: 24. 1913.

Crucibulum vulgare Tul.—On hickory.

Cyathus stercoreus (Schw.) DeToni

C. vernicosus (Bull.) DC.—Sandy soil.

Geaster hygrometricus Pers.

G. minimus Schw.—Cedar woods.

Lycoperdon atropurpureum Vitt.

L. cruciatum Rostk.—In cultivated fields and open woods.

L. echinatum Pers.—Greenport.

L. pusillum Batsch

L. pyriforme Schaeff.—On decayed cherry logs.

L. Wrightii B. & C.—Greenport.

Phallus impudicus L.

Polysaccum pisocarpium Fr.—Southold and Orient on the ground in woods; reported in N. Y. State Mus. Bull. 157: 32. 1912.

Scleroderma flavidum E. & E.—In cedar woods; specimens in N. Y. State Herbarium.

S. Geaster Fr.—In sandy soil; specimens in N. Y. State Herbarium.

S. tenerum B. & C.—In cedar woods.

S. verrucosum (Bull.) Pers.—Greenport.

S. vulgare Hornem.—In cedar woods; specimens in N. Y. State Herbarium.

LICHENES

Arthonia lecideella Nyl.—On bark of *Tilia americana*; determined by Dr. Bruce Fink.

A. quintaria Nyl.—On *Ailanthus glandulosa* and *Rhus* bark; determined by G. K. Merrill; reported in N. Y. State Mus. Bull. 167: 23. 1913.

A. radiata (Pers.) Th. Fr.—On hickory, *Fagus grandiflora*, *Amelanchier*, *Acer rubrum* and *Tilia americana* bark. (*Arthonia astroidea* Ach.)

Baeomyces roseus Pers.—East Marion on earth in woods.

Biatora flexuosa Fr.—Dead limbs of *Juniperus virginiana*; determined by Dr. H. E. Hasse.*

B. varians (Ach.) Tuck.—Determined by Dr. Hasse.

B. vernalis (L.) Fr.—On cedar fence rails; determined by Dr. Hasse.

Biatora (§ *Biatorina*) *cyrtella* (Ach., Nyl.) Tuck.—Determined by Dr. Hasse.

Biatora (§ *Bacidia*) *rubella* (Ehrh.) Rabenh.—On bark of *Juniperus virginiana* and *Toxicodendron radicans*; determined by Dr. L. W. Riddle.

B. (§ Bacidia) Schweinitzii Fr.—On *Juniperus virginiana*; determined by Dr. Hasse.

Biatora (§ *Biatorella*) *simplex* (Dav.)—On rocks; determined by Dr. Hasse.

Cetraria Islandica (L.) Ach.—Partly determined by Dr. Hasse.

Cladonia alpestris (L.) Rabenh.

C. bacillaris clavata (Ach.) Wainio—On pine bark and *Juniperus virginiana* stumps.

C. Boryi Tuck., *forma reticulata* (Russell) Merrill—Specimens in N. Y. State Herbarium.

C. caespiticia (Pers.) Flk.—Sandy soil at East Marion.

C. cariosa cribosa (Wallr.) Wainio—On earth.

C. cristatella Tuck.—On old coniferous logs.

* Specimens of the Lichens named by Dr. Hasse are preserved in the Lichen Herbarium of The Sullivant Moss Society.

C. cristatella ochrocarpia Tuck.—Determined by Dr. Hasse.

C. cristatella vestita Tuck.—Greenport; reported in N. Y. State Mus. Bull. 167: 34. 1913.

C. digitata (Ach.) Schaeer.—Light soil in open woods at Orient and East Marion; determined by Dr. Hasse.

C. digitata ceruchoidea Wainio—Determined by Dr. Hasse.

Cladonia fimbriata radiata (Schreb.) Fr.—Sandy soil; determined by Dr. Hasse.

C. furcata (Huds.) Schrad.—On earth.

C. furcata pinnata (Flk.) Wainio, f. *foliolosa* Del.—Determined by Dr. Hasse.

C. furcata racemosa (Hoffm.) Flk.—Determined by Dr. Hasse.

C. gracilis dilatata (Hoffm.) Wainio—Sandy soil; determined by Dr. Riddle; reported in N. Y. State Mus. Bull. 167: 34. 1913.

C. macilenta (Ehrh.) Hoffm.—A composite species on coniferous wood; partly determined by Dr. Hasse.

C. mitrula Tuck.

C. pyxidata chlorophaea (Spreng.) Flk.—Determined by Dr. Hasse.

C. pyxidata neglecta (Flk.) Mass.—On limbs of *Juniperus virginiana* and on earth.

C. pyxidata neglecta, m. *lophyra* Ach.—Determined by Dr. Hasse.

C. rangiferina (L.) Weber

C. squamosa (Scop.) Hoffm.—A variety of this composite species; determined by Dr. Hasse.

C. sylvatica (L.) Rabenh.

C. turgida conspicua (Schaer.) Nyl.—Determined by Dr. Hasse.

C. uncialis (L.) Fr.—A variety of this composite species.

C. verticillata Hoffm.

Collema (§ *Synechoblastus*) *nigrescens* (Huds.) Ach.—On *Juniperus virginiana* trees; determined by Dr. Hasse.

Graphis dendritica Ach., f. *obtusa* Leight.—On bark of *Acer rubrum*; determined by Dr. Hasse.

G. scripta (L.) Ach.—On hickory, oak and *Fagus grandiflora* bark.

G. scripta recta (Humb.) Koerb.—Determined by Dr. Hasse.

G. scripta serpentina (Ach.) Nyl.—Determined by Dr. Hasse.

Lecanora (§ *Candelaria*) *laciniosa* (Duf.) Nyl.—On *Juniperus virginiana* and *Nyssa sylvatica*; also old leather. (*Teloschistes concolor* (Dicks.) Tuck.)

L. (§ *Candelaria*) *laciniosa effuse* (Tuck.) n. comb.—Reported in N. Y. State Mus. Bull. 150: 49. 1911.

Lecanora (§ *Callopisma*) *campidia* (Tuck.) Nyl.—On oak bark at Orient; determined by Dr. Riddle; reported in N. Y. State Mus. Bull. 167: 30. 1913. (*Placodium campidium* Tuck.)

L. (§ *Callopisma*) *cerina* (Ehrh.) Ach.—On *Juniperus virginiana*; determined by Dr. Fink; specimens in N. Y. State Herbarium.

Lecanora (§ *Callopisma*) *ferruginea discolor* (Willey) n. comb.—On *Juniperus virginiana*; determined by Dr. Fink; reported in N. Y. State Mus. Bull. 150: 37. 1911.

L. (§ *Callopisma*) *ferruginea nigricans* (Tuck.) Nyl.—Determined by Dr. Hasse.

Lecanora (§ *Rinodina*) *ascociscana* (Tuck.) Nyl.—Bark of trees; determined by Dr. Hasse.

L. (§ *Rinodina*) *exigua* (Ach.) Th. Fr.—Determined by Dr. Hasse.

L. (§ *Rinodina*) *sophodes* (Ach.) Koerb.—On bark of *Baccharis halimifolia*; determined by Dr. Riddle.

Lecanora Hageni Ach.—Determined by Dr. Hasse.

L. pallida (Schreb.) Tuck.—On bark of *Ilex verticillata*.

L. pallida cancriformis (Hoffm.) Tuck.—On bark of oak and *Amelanchier*; determined by both Dr. Fink and Dr. Riddle.

L. subfusca (L., Nyl.) Ach.—On bark of oak, *Juniperus virginiana* and *Robinia Pseudo-Acacia*; partly determined by Dr. Fink.

L. subfusca allophana Ach.—On limbs of *Juniperus virginiana*; determined by Dr. Riddle; specimens in N. Y. State Herbarium.

L. subfusca rugosa (Pers.) Cromb.—Determined by Dr. Hasse.

L. symmictera Nyl.—Determined by Dr. Hasse.

L. varia (Ehrh.) Ach.—On bark of *Juniperus virginiana* and *Pyrus communis*.

L. varia saepincola Fr.—On old chestnut fence post; reported in N. Y. State Mus. Bull. 150: 46. 1911.

Lecanora (§ *Aspicilia*) *cinerea* (L.) Sommf.—On rocks.

Lecanora (§ *Acarospora*) *cervina squamulosa* Fr.—Determined by Dr. Hasse.

L. (§ *Acarospora*) *fuscata* (Schrad.) Fr.—On rocks; determined by Dr. Hasse.

Leclidea (§ *Buellia*) *disciformis* (Fr.) Nyl.—On oak, *Amygdalus persica*, *Robinia Pseudo-Acacia* and *Sambucus canadensis* bark; Greenport on bark of *Fagus grandiflora*; partly determined by Dr. Hasse.

L. (§ *Buellia*) *myriocarpa* (DC.) Nyl.—On pine, *Juniperus virginiana* and *Rhus* bark; partly determined by Dr. Fink, also Dr. Hasse; specimens in N. Y. State Herbarium.

Leclidea albocaeruleascens (Wulf.) Schaer.—Determined by Dr. Hasse.

Leptogium tremelloides (L. f.) S. F. Gray—On *Juniperus virginiana*.

Myriangium Duriae (Mont. & Berk.) Tuck.—On bark of *Fraxinus americana* at East Marion; determined by Dr. Hasse.

Opegrapha herpetica Ach.—On bark of *Tilia americana*; determined by Mr. Merrill; reported in N. Y. State Mus. Bull. 167: 29. 1913.

O. varia Pers.—On bark of hickory, *Ailanthus glandulosa* and *Tilia americana*; in part determined by Dr. Riddle.

O. varia pulicaris (Ach.) Nyl.—Determined by Dr. Hasse.

Opegrapha vulgata Ach.—Determined by Dr. Hasse.

Pannaria luridum (Mont.) Nyl.—Rare at Orient on bark of *Juniperus virginiana*; determined by Dr. Fink; specimens in N. Y. State Herbarium. (*Physma luridum* (Mont.) Tuck.)

Parmelia caperata (L.) Ach.—On *Juniperus virginiana*.

P. colpodes Ach.—Rare at Orient; specimens in N. Y. State Herbarium.

P. conspersa (Ehrh.) Ach.—On rocks.

P. crinita pilosella (Hue) Merrill—On *Juniperus virginiana*.

P. dubia (Wulf.) Schaer.—On trunks of oak. (*Parmelia Borreri* Tuck.)

P. dubia hypomela (Tuck.) n. comb.—On *Juniperus virginiana*; reported in N. Y. State Mus. Bull. 150: 47. 1911.

P. exasperata (Ach.) DN.—Determined by Dr. Hasse. (*Parmelia olivacea aspidota* Ach.)

P. hyperopta Ach.—Determined by Dr. Hasse.

P. olivacea (L.) Ach.—On oak bark.

P. perforata (Jacq.) Ach.—On oak; specimens in N. Y. State Herbarium.

P. perforata hypotropa (Nyl.) Tuck.—On *Juniperus virginiana*; determined by Dr. Fink; reported in N. Y. State Mus. Bull. 150: 47. 1911.

P. rudenta Ach.—On *Juniperus virginiana*; specimens in N. Y. State Herbarium. (*Parmelia Borreri rudenta* (Ach.) Tuck.)

P. saxatilis (L.) Fr.—On rocks.

P. sulcata Tayl.—Specimens in N. Y. State Herbarium. (*Parmelia saxatilis sulcata* Nyl.)

P. tiliacea Ach.—On trunks of *Malus Malus*.

Peltigera canina (L.) Hoffm.—On earth; determined by Dr. Hasse.

Pertusaria communis Lam. & DC.—On hickory, oak and *Fagus grandiflora*; determined by both Dr. Fink and Mr. Merrill.

P. leioplaca (Ach.) Schaeer.—On *Quercus velutina*; determined by Mr. Merrill; specimens in N. Y. State Herbarium.

P. multipuncta (Turn.) Nyl.—On hickory; in part determined by Dr. Hasse.

P. pustulata (Ach.) Nyl.—Orient and Greenport on *Myrica carolinensis*; determined by Mr. Merrill.

P. velata (Turn.) Nyl.—Determined by Dr. Fink.

P. Wulfenii Lam. & DC.—On oak at East Marion; determined by Dr. Hasse.

Physcia (§ *Xanthoria*) *parietina* (L.) DN.—Determined by Dr. Hasse. (*Teloschistes parietinus* (L.) Norm.).

P. (§ *Xanthoria*) *parietina aureola* (Ach.) Nyl.—On *Robinia Pseudo-Acacia*; determined by Dr. Hasse.

P. (§ *Xanthoria*) *polycarpa* (Ehrh.) Nyl.—Determined by Dr. Hasse.

Physcia (§ *Pseudophyscia*) *hypoleuca* (Muhl.) Tuck.—Rare at Orient on *Juniperus virginiana* bark; determined by Miss Mary F. Miller; specimens in N. Y. State Herbarium.

P. (§ *Pseudophyscia*) *speciosa* (Wulf.) Nyl.—Determined by Dr. Hasse.

Physcia hispida (Schreb.) Tuck.—Orient, very rare on a *Juniperus virginiana* stump; determined by Dr. Fink; reported in N. Y. State Mus. Bull. 150: 36. 1911.

P. obscura (Ehrh.) Nyl.—On bark of *Juniperus virginiana*; determined by Dr. Hasse.

P. obscura endochrysea (Hampe) Nyl.—On *Juniperus virginiana*.

P. stellaris (L.) Nyl.—On *Juniperus virginiana*; specimens in N. Y. State Herbarium.

P. tribacia (Ach.) Nyl.—On *Juniperus virginiana* and *Robinia Pseudo-Acacia*; also on rocks.

Platysma aurescens (Tuck.) Nyl.—Determined by Dr. Hasse. (*Cetraria aurescens* Tuck.)

P. ciliare (Ach.) Nyl.

P. Fendleri (Tuck.) Nyl.—Determined by Dr. Hasse.

P. glaucum (L.) Nyl.—Determined by Dr. Hasse.

P. lacunosum (Ach.) Nyl.

Pyrenula nitida Ach.—Greenport on trunks of *Fagus grandiflora*.

Pyxine soreliata (Ach.) Fr.—On oak, *Juniperus virginiana* and *Robinia Pseudo-Acacia* bark.

Ramalina calicaris (L.) Nyl.—On *Juniperus virginiana*; in part determined by Dr. Hasse.

R. calicaris subampliata Nyl.—On *Juniperus virginiana*; reported in N. Y. State Mus. Bull. 150: 47. 1911, as *Ramalina calicaris fraxinea* Fr.

R. subfastigiata Nyl.—On oak, *Juniperus virginiana* and *Robinia Pseudo-Acacia*; determined by Dr. Hasse.

R. tenuis Tuck., Merrill—On *Juniperus virginiana*; reported in N. Y. State Mus. Bull. 150: 38. 1911, as *Ramalina rigida* (Pers.) Ach.

Sagedia cestrensis Tuck.—Orient on bark of hickory and *Tilia americana*; determined by Miss Miller; reported in N. Y. State Mus. Bull. 157: 33. 1912.

Teloschistes chrysophthalmus (L.) Th. Fr.—Determined by Dr. Hasse, who says, "an unusual form on account of almost entire absence of fibrillae."

T. flavicans (Sw.) Norm.—Orient on *Juniperus virginiana*; determined by Dr. Fink; reported in N. Y. State Mus. Bull. 150: 39. 1911.

Usnea ceratina Ach.—Determined by Dr. Hasse, who says, "the color of the thallus is unusually dark."

U. florida (L.) Hoffm.—On pine and *Juniperus virginiana*; determined by Dr. Hasse.

U. florida rubiginea Mx.—On *Juniperus virginiana*.

U. hirta (L.) Hoffm.

U. trichodea Ach.—On *Juniperus virginiana*; reported in N. Y. State Mus. Bull. 150: 40. 1911.

Xylographa parallela (Ach.) Fr.—Determined by Dr. Hasse.

HEPATICAE

Anthoceros laevis L.

Calypogeia Sullivantii Aust.—Determined by G. B. Kaiser.

C. Trichomanis (L.) Cda.—Determined by Miss Annie Lorenz.

Cephalozia curvifolia (Dicks.) Dumort.—On an old log in wet woods at Greenport; determined by Dr. G. B. Conklin.

Frullania Asagrayana Mont.—On a rock in swampy woods; determined by both Dr. Conklin and Mr. Kaiser.

F. eboracensis Gottsche—On bark of *Juniperus virginiana*.

Lophocolea heterophylla (Schrad.) Dumort.—Determined by Dr. Conklin.

Marchantia polymorpha L.—Determined by Dr. Conklin.

Odontoschisma prostratum (Sw.) Trev.—Determined by Miss Lorenz; specimens in N. Y. State Herbarium.

Pellia epiphylla (L.) Cda.—On earth.

Porella pinnata L.—Trunks of bushes in swamps; determined by Mr. Kaiser.

P. platyphylla (L.) Lindb.—Trunks of trees.

Ptilidium pulcherrimum (Web.) Hampe

Radula complanata (L.) Dumort.

Ricciella fluitans (L.) A. Br.—On mud in a pond; determined by Mr. Kaiser.

Riccia Sullivantii (Aüst.) Evans.

Ricciocarpus natans (L.) Cda.—Floating in water.

MUSCI

Amblystegium riparium B. & S.—In swamps.

A. riparium longifolium (Schultz) B. & S.—Determined by G. B. Kaiser.*

A. serpens (L.) B. & S.

Anomodon attenuatus (Schreb.) Hueb.—About base of trees in woods at Greenport; determined by Mr. Kaiser.

A. rostratus (Hedw.) Schimp.—Determined by Mr. Kaiser.

Aulacomnium palustre (L.) Schwaegr.—In swamps.

Brachythecium oxycladon (Brid.) J. & S.—On trunks of trees.

B. rivulare B. & S.—Wet places.

B. rutabulum (L.) B. & S.—Sandy soil.

B. velutinum (L.) B. & S.—On soil at base of trees.

Bryhnia Novae-Angliae (S. & L.) Grout—Swamps at Greenport.

Bryum caespiticium L.—Greenport; determined by Dr. A. W. Evans.

Campylium hispidulum (Brid.) Mitt.—Determined by Mr. Kaiser.

C. radicale (Bv.) Grout—Determined by Mr. Kaiser.

Catharinea angustata Brid.—Shaded sandy soil.

C. undulata (L.) W. & M.

Ceratodon purpureus (L.) Brid.—Sandy soil.

Climacium Kindbergii (R. & C.) Grout—On roots of trees in wet places; reported in N. Y. State Mus. Bull. 150: 25. 1911.

Dichelyma capillaceum B. & S.—On *Cephalanthus occidentalis* in a swamp.

Dicranella heteromalla (L.) Schimp.

Dicranum Drummondii CM.—Wet woods at Greenport; determined by Mr. Kaiser.

D. flagellare Hedw.

D. fulvum Hook.—Determined by Mr. Kaiser.

D. pallidum B. & S.—Sandy beach in open cedar woods; determined by Mr. Kaiser.

D. scoparium (L.) Hedw.

Ditrichum pallidum (Schreb.) Hampe—In cedar woods.

Drepanocladus aduncus gracilescens (Schimp.)—In swamps.

D. filitans (Dill.) Warnst.—East Marion.

Entodon seductrix (Hedw.) CM.—Wet log in a swamp; determined by Mr. Kaiser.

Eurhynchium hians (Hedw.) J. & S.—Sandy soil.

E. serrulatum (Hedw.) Kindb.—Determined by Mr. Kaiser.

E. strigosum (Hoffm.) B. & S.

Fontinalis Sullivantii Lindb.—Greenport on roots and trunks of bushes in a swamp; determined by Mr. Kaiser.

Funaria flavicans Mx.

F. hygrometrica (L.) Sibth.—Greenport; determined by Dr. Evans.

Hedwigia albicans (Web.) Lindb.—Base of oak trees.

Hypnum cypresiforme L.—Determined by Mr. Kaiser.

H. cypresiforme resupinatum (Wils.) Schimp.—Determined by Mr. Kaiser.

H. curvifolium Hedw.

H. Haldanianum Grev.—On old logs and stumps; in part determined by Mr. Kaiser.

H. imponens Hedw.—Moist places.

H. Patientiae Lindb.—Determined by Mr. Kaiser.

H. recurvans (Mx.) Schwaegr.—On moist earth; determined by Mr. Kaiser.

H. reptile Mx.—Greenport in moist woods; determined by Mr. Kaiser.

Leptobryum pyriforme (L.) Wils.

* Specimens of the Mosses named by G. B. Kaiser are preserved in the Moss Herbarium of The Sullivant Moss Society.

Leucobryum glaucum (L.) Schimp.

Leucodon brachypus Brid.—On bark of *Juniperus virginiana*; determined by Mr. Kaiser.

L. julaceus (Hedw.) Sull.—On *Juniperus virginiana* bark.

Mniobryum albicans (Wahl.) Limpr.—Determined by Mr. Kaiser.

Mnium affine ciliare (Grev.) CM.—Wet places.

M. cuspidatum (L.) Leyss—On rotten logs and moist soil; in part determined by Mr. Kaiser.

M. hornum L.—Edge of a swamp.

M. rostratum Schrad.

Orthotrichum strangulatum Sull.—Greenport on trees; determined by Mr. Kaiser.

Physcomitrium turbinatum (Mx.) Brid.—Greenport; determined by Dr. Evans.

Plagiothecium denticulatum (L.) B. & S.—Wet places at Greenport.

P. Ruthei Limpr.—Determined by Mr. Kaiser.

P. striatellum (Brid.) Lindb.—Greenport in moist soil; determined by Mr. Kaiser.

P. sylvaticum (Huds.) B. & S.—Sandy soil; determined by Mr. Kaiser.

P. turfaceum Lindb.—On stumps of *Juniperus virginiana*.

Pleuridium subulatum (L.) Rabenh.—Determined by Mr. Kaiser.

Pogonatum brachyphyllum (Mx.) Bv.—Orient; determined by G. B. Nichols.

Pohlia nutans (Schreb.) Lindb.—Greenport in light soil in woods; also on sandy beach at Orient; determined by Mr. Kaiser.

Polytrichum commune L.—Dry woods.

P. juniperinum Willd.—Determined by G. B. Kaiser.

P. Ohioense B. & C.—Wet woods at Greenport; determined by Mr. Kaiser.

P. piliferum Schreb.

Pylaisia Schimperi R. & C.

Sphagnum acutifolium Ehrh.—Determined at Bureau of Plant Industry.

S. cuspidatum Ehrh.—Wet open meadow; determined by Mr. Kaiser.

S. cymbifolium Ehrh.—Determined at Bureau of Plant Industry.

S. recurvum Bv.—Determined at Bureau of Plant Industry.

S. Torreyanum Sull.—Boggy woods at Greenport; determined by Mr. Kaiser.

Thelia hirtella (Hedw.) Sull.—Base of oak and other trees.

T. Lescurii Sull.—Sandy soil; determined by Mr. Kaiser.

Thuidium delicatulum (L.) Mitt.

T. paludosum (Sull.) Rau & Herv.—Wet open soil; determined by Mr. Kaiser.

T. scitum (Bv.) Aust.—Base of oak trees; determined by Mr. Kaiser.

Tortella caespitosa (Schwaegr.) Limpr.—Sandy beach; determined by Mr. Kaiser.

Ulota americana (Bv.) Lindb.—Rocks.

U. crispa Brid.—Bark of an old oak; determined by Mr. Kaiser.

Webera sessilis (Schmid.) Lindb.—On rich banks at Greenport.

Weisia viridula (L.) Hedw.—Sandy soil.

PTERIDOPHYTA

OPHIOGLOSSACEAE

Botrychium dissectum Spreng.—Rare at Orient and East Marion.

B. neglectum Wood—Rare at East Marion in rich woods.

B. obliquum Muhl.—Rare.

B. virginianum (L.) Sw.

OSMUNDACEAE

Osmunda cinnamomea L.

O. Claytoniana L.

O. regalis L.

POLYPODIACEAE

Adiantum pedatum L.—Rare at Orient.

Achistea virginica (L.) Presl.—Greenport in swamps. (*Woodwardia virginica* (L.) J. E. Sm.)

Asplenium platyneuron (L.) Oakes—Orient in cedar woods; also the var. *serratum* (E. S. Miller) BSP.

Athyrium Filix-foemina (L.) Roth—Also the var. *latifolium* Babingt. (*Asplenium Filix-foemina* (L.) Bernh.)

Dennstaedtia punctilobula (Mx.) Moore.

Dryopteris Clintoniana (D. C. Eaton) Dowell—Rare.

D. cristata (L.) A. Gray—Orient.

D. hexagonoptera (Mx.) C. Chr.—Rare at Orient; also occurs at Greenport and Southold. (*Phegopteris hexagonoptera* (Mx.) Fee.)

D. intermedia (Muhl.) Gray—Orient.

D. marginalis (L.) A. Gray—Rare at Orient.

D. noveboracensis (L.) A. Gray—Orient.

D. simulata Davenp.—Orient.

D. spinulosa (Muell.) Ktze.—Orient.

D. Thelypteris (L.) A. Gray.

Lorinseria areolata (L.) Presl.—Greenport in swamps. (*Woodwardia areolata* (L.) Moore.)

Onoclea sensibilis L.

Polypodium vulgare L.—Mattituck.

Polystichum acrostichoides (Mx.) Schott.—Orient.

Pteridium aquilinum (L.) Kuhn.

EQUISETACEAE

Equisetum arvense L.

LYCOPODIACEAE

Lycopodium complanatum L.—Rare at Greenport.

L. inundatum L.—Rare at Southold, the var. *Bigelovii* Tuck.

L. lucidulum Mx.—Rare at Greenport.

L. obscurum L.—Rare at Greenport, the var. *dendrodeum* (Mx.) D. C. Eaton.

SELAGINELLACEAE

Selaginella rupestris (L.) Spring.—Rare at Orient in sandy soil, Nov., 1910 and 1911.

SPERMATOPHYTA

GYMNOSPERMÆ

PINACEAE

Juniperus sibirica Burgsd.—Rare at Southold on sandy hills. (*Juniperus nana* Willd.)

J. virginiana L.—Prostrate forms also occur.

Picea rubens Sargent.—Rare at Orient.

Pinus rigida Mill.

ANGIOSPERMÆ

MONOCOTYLEDONES

TYPHACEAE

Typha angustifolia L.

T. latifolia L.

SPARGANIACEAE

Sparganium americanum Nutt.—Rare at Greenport in a stream.

S. androcladon (Engelm.) Morong—Greenport.

S. diversifolium Graeb.—Rare at Southold, 8 Aug., 1910.

S. eurycarpum Engelm.—Rare on Gardiner's Island.

ZANNICHELLIACEAE

Potamogeton Oakesianus Robbins—Greenport and Southold in ponds

P. pusillus L.—Greenport in a shallow pond.

Ruppia maritima L.—Salt-water ponds and creeks.

ZOSTERACEAE

Zostera marina L.

SCHEUCHZERIACEAE

Triglochin maritima L.—Salt marshes.

ALISMACEAE

Alisma subcordatum Raf.—(Formerly confused with *Alisma Plantago-aquatica* L.)

Sagittaria latifolia Willd.—Rare and variable.

GRAMINEAE

Agropyron repens (L.) Bv.—Meadows and cultivated soil.

Agrostis alba L.—Also the var. *vulgaris* (With.) Thurb.

A. canina L.—Orient.

A. hyemalis (Walt.) BSP.—Wooded swamps and brackish meadows; determined in part by Mrs. Agnes Chase.

A. maritima Lam.—Salt marshes; determined in part by Mrs. Chase.

Alopecurus pratensis L.—Rare at Orient in a low field; determined at the New York Botanical Garden.

Ammophila arenaria (L.) Link—Orient.

Andropogon furcatus Muhl.—Orient in shaded places.

A. glomeratus (Walt.) BSP.—Rare at Orient.

Anthoxanthum odoratum L.

Aristida dichotoma Mx.

A. gracilis Ell.—Orient in meadows; specimens in N. Y. State Herbarium.

A. purpurascens Poir.—Rare at Gardiner's Island; specimens in N. Y. State Herbarium.

Arrhenatherum elatius (L.) Bv.—Determined in part by Mrs. Chase.

Aspis caryophyllea (L.) Nash—Greenport. (*Aira caryophyllea* L.)

Bromus hordeaceus L.—Orient in sandy soil.

B. purgans L.—Rare at Orient.

B. racemosus L.—Rare at Orient.

B. secalinus L.—Cultivated grounds; determined in part by Mrs. Chase.

B. tectorum L.—Rare at Orient in sandy soil.

Calamagrostis canadensis (Mx.) Bv.—Low grounds.

Cenchrus tribuloides L.—Rare at Orient and Gardiner's Island.

Chaetochloa glauca (L.) Scribn.—Orient in cultivated soil.

C. imberbis (Poir.) Scribn.—Salt marshes.

C. italicica (L.) (Scribn.)—Escaped from cultivation at Orient.

C. viridis (L.) Scribn.

Cinna arundinacea L.—Greenport.

C. latifolia (Trev.) Griseb.—Greenport; specimens in N. Y. State Herbarium.

Cynosorus cristatus L.—Rare at Orient in waste places.

Dactylis glomerata L.—Meadows.

D. anthonia spicata (L.) Bv.—Determined in part by Mrs. Chase.

Deschampsia flexuosa (L.) Trin.

Distichlis spicata (L.) Greene

Echinochloa Crus-galli (L.) Bv.

E. Walteri (Pursh) Nash.

Eleusine indica (L.) Gaertn.

Elymus canadensis L.—Beaches.

E. virginicus L.—Salt marshes.

Eragrostis Eragrostis (L.) Karst.

E. major Host.—Rare at Orient.

E. pectinacea (Mx.) Steud.—Orient on hillsides.

E. pilosa (L.) Bv.—Rare at Orient along roads.

Festuca capillata Lam.—Orient in meadows; determined by Mr. P. L. Ricker.

F. elatior L.

F. nutans Willd.—Orient.

F. octoflora Walt.—Orient in light soil.

F. ovina L.—Orient; also the var. *pseudovina* Hack., on sandy beaches, determined by Mrs. Chase.

Homalocenchrus oryzoides (L.) Poll.—About swamps and ponds.

H. virginicus (Willd.) Britton—Greenport.

Hordeum jubatum L.—Rare at Orient.

Lolium perenne L.—Orient in a meadow.

Muhlenbergia mexicana (L.) Trin.

M. Schreberi Gmeln.—Orient in cedar woods.

M. umbrosa Scribn.—Low woods. (*Muhlenbergia sylvatica* Torr.)

Nothoholcus lanatus (L.) Nash—(*Holcus lanatus* L.)

Panicularia acutiflora (Torr.) Ktze.—Orient about ponds.

P. grandis (Wats.) Nash—Determined by Mrs. Chase.

P. nervata (Willd.) Ktze.—Greenport in wooded swamps; also the var. *parviflora* (Vasey) in moist woods.

Panicularia pallida (Torr.) Ktze.—Greenport.

P. septentrionalis (Hitchc.) Bicknell—Greenport in wet woods, specimens with very long panicles.

Panicum agrostoides Spreng.—Orient; specimens in N. Y. State Herbarium.

P. amarum Ell.—Southold on sandy beaches; specimens in N. Y. State Herbarium.

P. Ashei Pearson—Orient; determined by Mrs. Chase.

P. Bicknellii Nash.

P. Bosci Poir.

P. capillare L.—A weed in cultivated soil.

P. cladestinum L.

P. columbianum Scribn.—Determined by Mrs. Chase.

P. Commonsianum Ashe—Determined by Mrs. Chase.

P. depauperatum Muhl.—Sandy soil; determined by Mrs. Chase.

P. dichotomiflorum Mx.—Cultivated soil. (Formerly confused with *Panicum proliferum* Lam.)

P. dichotomum L.—Determined by Mrs. Chase.

P. huachucae Ashe—Sandy soil; also the var. *silvicola* Hitchc. & Chase, determined by Mrs. Chase.

P. implicatum Scribn.

P. meridionale Ashe—Determined by Mrs. Chase. (*Panicum oricola* Hitchc. & Chase.)

P. microcarpon Muhl.—Rare at Greenport, also “a rare form with pubescent spikelets” in cedar woods at Orient; determined by Mrs. Chase. (*Panicum barbulatum* Nash.)

P. polyanthes Schultes—Determined by Mrs. Chase.

P. Scribnerianum Nash—Hilly pastures at East Marion.

P. sphaerocarpon Ell.—Greenport; determined by Mrs. Chase.

P. spretum Schultes—Orient in wet meadows; reported in N. Y. State Mus. Bull. 139: 27. 1910.

P. verrucosum Muhl.—Rare at Orient.

P. virgatum L.—Margins of salt marshes; determined in part by Mrs. Chase.

Paspalum circulare Nash—Greenport and East Marion; specimens in N. Y. State Herbarium.

P. Muhlenbergii Nash.
P. psammophilum Nash.
P. setaceum Mx.—Specimens in N. Y. State Herbarium.
Phleum pratense L.
Phragmites Phragmites (L.) Karst.—Orient in swamps.
Poa annua L.
P. compressa L.—Sandy soil.
P. pratensis L.—Meadows.
P. triflora Gilib.—Orient about ponds; determined in part by Mrs. Chase. (Formerly confused with *Poa flava* L.)
Savastano odorata (L.) Scribn.—Wet meadows.
Schizachyrium scoparium (Mx.) Nash—(*Andropogon scoparius* Mx.)
Sorghastrum nutans (L.) Nash—Orient in moist woods.
Spartina Michauxiana Hitchc.
S. patens (Ait.) Muhl.—Also var. *junccea* (Mx.) Hitchc.; specimens in N. Y. State Herbarium.
S. stricta (Ait.) Roth—The var. *alterniflora* (Lois.) A. Gray.
Sphenopolis pallens (Spreng.) Scribn.—Rare at Orient. (*Eatonia pennsylvanica* (DC.) Gray.)
Sporobolus asper (Mx.) Kunth—Orient.
S. crypilandrus (Torr.) A. Gray—Sandy beaches; reported in N. Y. State Mus. Bull. 150: 49. 1911.
Sporobolus uniflorus Muhl.—Greenport. (*Sporobolus serotinus* (Torr.) A. Gray.)
S. vaginæflorus Torr.—Orient.
Stipa avenacea L.—Rare at East Marion and Southold; specimens in N. Y. State Herbarium.
Syntherisma Ischaemum (Schreb.) Nash—(*Syntherisma linearis* (Krock.) Nash.)
Tridens flavus (L.) Hitchc.—Dry soil.
Triplasis purpurea (Walt.) Chapm.—Sandy hills.
Tripsacum dactyloides L.—Upper edge of salt marsh at Orient, 19 July, 1909; specimens in N. Y. State Herbarium.

CYPERACEAE

Carex alboluteescens Schwein.
C. albursina Sheldon—Greenport.
C. blanda Dew.—Orient.
C. canescens L.—Also the var. *disjuncta* Fernald; specimens of the variety in N. Y. State Herbarium.
C. cephalophora Muhl.—Shaded places.
C. comosa Boott.—Margins of swamps.
C. complanata Torr.—(*Carex triceps*, var. *hirsuta* (Willd.) Bailey.)
C. crinita Lam.—Swampy places.
C. digitalis Willd.—Dry open woods.
C. festucacea Schkuhr.—The var. *brevior* (Dew.) Fernald; determined at Bureau of Plant Industry.
C. flexuosa Muhl.—Greenport. (*Carex tenuis* Rudge.)
C. foenea Willd.
C. folliculata L.—Greenport in swampy woods; also a slender form.
C. grisea Wahl.—Determined at Bureau of Plant Industry.

C. hormathodes Fernald.—Wet places.

C. intumescens Rudge—Greenport.

C. lasiocarpa Ehrh.—Greenport. (*Carex filiformis* L.)

C. Leersii Willd.—Orient in swamps; also *Carex stellulata*, var. *excelsior* (Bailey) Fernald.

C. lupulina Muhl.—Wet woods; also the var. *pedunculata* Dew.

C. lurida Wahl.—Wet places; also the var. *parvula* (Paine) Bailey.

C. Muhlenbergii Schkr.—Dry open woods; in part determined at Bureau of Plant Industry.

C. pallescens L.—Orient in moist soil; plants with spikes on longer stalks than usual.

C. pennsylvanica Lam.—Orient and East Marion in dry woods.

C. rosea Schkr.—Hilly woods.

C. rosaeoides E. C. Howe—Orient. (*Carex seorsa* E. C. Howe.)

C. rostrata Stokes—Wet places. (*Carex utriculata* Boot.)

C. scoparia Schkr.—Low grounds.

C. silacea Olney—Salt marshes.

C. squarrosa L.—Greenport.

C. stipata Muhl.—Greenport in wet woods.

C. straminea Willd.—Orient.

C. stricta Lam.

C. typhina Mx.—Greenport. (*Carex typhinoidea* Schwein.)

C. varia Muhl.—Greenport.

C. vestita Willd.—Orient in open woods and moist soil.

C. virescens Muhl.—Dry open woods; in part determined at Bureau of Plant Industry.

C. vulpinoidea Mx.—Sandy hillsides and low woods.

C. Willdenowii Schukr.—Determined at Bureau of Plant Industry.

C. dentatus Torr.—Rare at Orient.

C. diandrus Torr.—Wet places and near the beach.

C. esculentus L.—Greenport.

C. ferax L. C. Richard.—Rare near the beach; specimens in N. Y. State Herbarium.

C. filiculmis Vahl—Sandy hillsides and beaches.

C. filicinus Vahl—Low grounds and beaches; specimens in N. Y. State Herbarium. (*Cyperus Nuttallii* Eddy.)

C. Grayi Torr.—Southold; specimens in N. Y. State Herbarium.

C. Houghtoni Torr.—Orient.

C. strigosus L.—Low grounds; also the var. *capitatus* Boeckl.

Dulichium arundinaceum (L.) Britton—Swamps.

Eleocharis acicularis (L.) R. & S.

E. acuminata (Muhl.) Nees—Greenport.

E. intermedia (Muhl.) Schultes—Greenport.

E. olivacea Torr.—Greenport in a cat-tail swamp; also Orient.

E. obtusa (Willd.) Schultes—In part determined at Bureau of Plant Industry.

E. palustris (L.) R. & S.—Greenport in wet places.

E. tenuis (Willd.) Schultes—Swampy places.

Eriophorum virginicum L.—Rare at Orient in wet places.

Fimbristylis autumnalis (L.) R. & S.—Wet places.

F. castanea (Mx.) Vahl—Rare at Orient on salt marshes; plants with shining(!) scales were collected 14 July 1913; specimens in N. Y. State Herbarium.

Mariscus mariscoides (Muhl.) Ktze.—(*Cladium mariscoides* (Muhl.) Torr.)

Rynchospora corniculata (Lam.) A. Gray—Rare at Orient, the var. *macrostachya* (Torr.) Britton.

R. glomerata (L.) Vahl—Low grounds.

Scirpus americanus Pers.—Salt marshes and beaches.

S. atrovirens Muhl.—Orient.

S. cyperinus (L.) Kunth—Wet places in open woods; also *Scirpus pedicellatus* Fernald.

S. Olneyi A. Gray—Southold; specimens in N. Y. State Herbarium.

S. paludosus A. Nels.—Orient on salt marshes.

S. robustus Pursh.

S. validus Vahl.

Stenophyllum capillaris (L.) Britton—Sandy hillsides.

ARACEAE

Acorus calamus L.

Arisaema triphyllum (L.) Torr.

Peltandra virginica (L.) Kunth—Greenport in wet woods.

Spathyema foetida (L.) Raf.—Greenport.

LEMNACEAE

Lemna minor L.—Greenport, floating on pools.

XYRIDACEAE

Xyris caroliniana Walt.—Southold.

ERIOCAULACEAE

Eriocaulon septangulare With.—Southold.

COMMELINACEAE

Commelina communis L.—Roadsides and waste places.

PONTEDERIACEAE

Pontederia cordata L.—Greenport and Southold.

JUNCACEAE

Juncoidea campestris (L.) Ktze.

Juncus acuminatus Mx.

J. articulatus L.—Greenport.

J. balticus Willd.—Brackish meadow at Orient, 30 May, 1910, and 3 June, 1914.

J. bufonius L.—Margin of salt marshes; specimens in N. Y. State Herbarium.

J. canadensis J. Gay.

J. dichotomus Ell.—Orient in cultivated field and in swamps, the var. *platyphyllus* Wieg.; in part determined at Bureau of Plant Industry.

J. effusus L.

J. Gerardi Lois.—Salt marshes; used for hay.

J. Greenei Oakes & Tuck.—Orient on hills.

J. marginatus Rostk.—Rare.

J. pelocarpus E. Meyer—Wet places.

J. scirpooides Lam.—Orient.

J. secundus Bv.—Orient about wet places.

J. tenuis Willd.—Also a few-flowered form; and the var. *anthelatus* Wieg., determined at Bureau of Plant Industry.

MELANTHACEAE

Veratrum viride Ait.—Greenport and Gardiner's Island.

LILIACEAE

Allium canadense L.—Rare at Orient in dry woods.

A. vineale L.—Orient.

Hemerocallis fulva L.—Orient, escaped along roads.

Lilium canadense L.

L. superbum L.—Orient.

L. tigrinum Andr.—Escaped to roadsides and meadows.

Ornithogalum umbellatum L.—Escaped at Orient.

CONVALLARIACEAE

Asparagus officinalis L.

Polygonatum biflorum (Walt.) Ell.

P. commutatum (R. & S.) Dietr.

Unifolium canadense (Desf.) Greene.

Uvularia perfoliata L.

U. sessilifolia L.

Vagnera racemosa (L.) Morong—Some of the plants unusually pubescent (!); specimens in N. Y. State Herbarium.

V. stellata (L.) Morong.

TRILLIACEAE

Medeola virginiana L.

Trillium cernuum L.—Rare at Greenport.

SMILACEAE

Smilax glauca Walt.

S. herbacea L.

S. rotundifolia L.

AMARYLLIDACEAE

Hypoxis hirsuta (L.) Coville.

DIOSCOREACEAE

Dioscorea villosa L.—Rare on Gardiner's Island and at Southold in moist woods.

IRIDACEAE

Iris prismatica Pursh—Orient; specimens in N. Y. State Herbarium.

I. versicolor L.

Sisyrinchium angustifolium Mill.

S. atlanticum Bicknell—Orient.

S. graminoides Bicknell—Rare at Greenport in moist woods; determined at Bureau of Plant Industry.

ORCHIDACEAE

Blephariglottis blephariglottis (Willd.) Rydb.—Orient in bogs; determined at the New York Botanical Garden.

B. lacera (Mx.) Farwell.

Fissistes acaulis (Ait.) Small—Rare at East Marion and Southold. (*Cypripedium acaule* Ait.)

Ibidium cernuum (L.) House—Orient. (*Spiranthes cernua* (L.) Richard.)

I. gracile (Bigel.) House.

I. praecox (Walt.) House—Specimens in N. Y. State Herbarium.

Limodorum tuberosum L.—Rare at Orient.

Peramium pubescens (Willd.) MacM.

Perularia flava (L.) Farwell—Rare at Orient; determined at New York Botanical Garden.

Tipularia uniflora (Muhl.) BSP.—Rare at Greenport, 21 Aug. (flowers) and 30 Oct. (fruit), 1911; "a colony of about 30 plants"; reported in N. Y. State Mus. Bull. 157: 42. 1912. The 19 July, 1914, Mr. Latham spent fully two hours hunting for *Tipularia* before he was successful; so perfectly does the little dark-colored stem blend with the surrounding dead laurel twigs that one almost loses it when they remove the eye from it. The 24 Aug. 1914, it was decided that a forest fire had destroyed the colony of 30 plants; for the corms were exposed more than one-half out of the ground.

DICOTYLEDONES

JUGLANDACEAE

Hicoria alba (L.) Britton—Rare; specimens in N. Y. State Herbarium.

H. cordiformis (Wang.) Britton—(*Hicoria minima* (Marsh.) Britton.)

H. glabra (Mill.) Britton.

H. ovata (Mill.) Britton.

MYRICACEAE

Comptonia peregrina (L.) Coulter—East Marion.

Myrica carolinensis Mill.

SALICACEAE

Populus alba L.—Roadsides and in woods.

P. candicans Ait.—Rarely escaped at Orient.

P. deltoides Marsh.—Roadsides and open woods.

P. heterophylla L.—Greenport in a swamp.

P. grandidentata Mx.—Moist woods.

P. italica Moench.—Rarely escaped at Orient.

P. tremuloides Mx.

Salix alba L.

S. Bebbiana Sarg.—Wet meadows and swamps.

S. cordata Muhl.—Rare at Orient in swamps.

S. discolor Muhl.—Rare at Orient.

S. fragilis L.

S. humilis Marsh.—Dry soil.

S. interior Rowlee—Rare at Orient in wet places. (*Salix longifolia* Muhl.)

S. lucida Muhl.—Rare at Orient.

S. nigra Marsh.—Rare in low grounds.

S. purpurea L.—Escaped at Orient; specimens in N. Y. State Herbarium.

S. sericea Marsh.—East Marion.

BETULACEAE

Alnus incana (L.) Willd.—Greenport.
A. rugosa (DuRoi) Spreng.—Rare at Orient.
Betula lenta L.—Greenport.
B. populifolia Marsh.
Corylus americana Walt.—Rare at Orient.
C. rostrata Ait.—Orient.
Ostrya virginiana (Mill.) Willd.

FAGACEAE

Castanea dentata (Marsh.) Borkh.
Fagus grandiflora Ehrh.—Greenport, East Marion and Southold; unknown at Orient. (*Fagus americana* Sweet.)
Quercus alba L.—More common at Greenport than at Orient.
Q. bicolor Willd.—Greenport.
Q. coccinea Wang.
Q. Muhlenbergii Engelm.—Rare at Greenport.
Q. palustris DuRoi—Rare.
Q. Prinoides L.—More common at Greenport than at Orient.
Q. rubra L.—Rare.
Q. stellata Wang.—Sandy soil.
Q. velutina Lam.

ULMACEAE

Celtis occidentalis L.

MORACEAE

Toxylon pomiferum Raf.—Escaped from cultivation.

CANNABINACEAE

Humulus Lupulus L.—Rare at Orient in open woods.

URTICACEAE

Boehmeria cylindrica (L.) Sw.
Pilea pumila (L.) A. Gray.

SANTALACEAE

Comandra umbellata (L.) Nutt.—Light sandy soil.

ARISTOLOCHIACEAE

Asarum canadense L.—Determined at New York Botanical Garden.

POLYGONACEAE

Persicaria Hydropiper (L.) Opiz—Cultivated fields and about yards. (*Polygonum Hydropiper* L.)
P. hydropiperoides (Mx.) Small—About ponds and wet places.
P. lapathifolia (L.) S. F. Gray—Rare at Orient.
P. pennsylvanica (L.) Small.
P. Persicaria (L.) Small.
P. punctata (Ell.) Small—Fields, waste places and about swamps.
Polygonella articulata (L.) Meisn.—Orient.
Polygonum aviculare L.—Yards and roadsides; sometimes on sandy beaches far from dwellings.

P. buxiforme Small.—Beaches; specimens in N. Y. State Herbarium. (Formerly confused with *Polygonum littorale* Link.)

P. erectum L.—Orient in yards and on beaches.

P. maritimum L.—Beaches on Gardiner's Island; specimens in N. Y. State Herbarium.

P. prolificum (Small) Robins.—Orient; specimens in N. Y. State Herbarium.

P. tenue Mx.—Rare at Orient.

Tiniaria Convolvulus (L.) Webb & Moq.—Plants with the achene more shining than usual (!). (*Polygonum Convolvulus* L.)

T. dumetorum (L.) Opiz—Rare at Orient.

T. scandens (L.) Small.

Tovara virginiana (L.) Raf.—Gardiner's Island and rare at Greenport. (*Polygonum virginianum* L.)

Tracaulon arifolium (L.) Raf.—Swampy woods. (*Polygonum arifolium* L.)

T. sagittatum (L.) Small—Gardiner's Island.

Rumex Acetosella L.

R. Brittanica L.—Rare at Greenport in a swamp.

R. crispus L.

R. hastatulus Muhl.

R. obtusifolius L.

R. pallidus Bigel.—Rare at Orient; reported in N. Y. State Mus. Bull. 139: 29. 1910.

R. persicarioides L.—Rare at Orient.

R. verticillatus L.—Rare at Greenport.

AMARANTHACEAE

Acnida tuberculata Moq.—Rare at Greenport, margin of marshes.

Amaranthus blitoides S. Wats.—Rare at Orient in waste places.

A. graecizans L.

A. hybridus L.

A. retroflexus L.

CHENOPODIACEAE

Atriplex arenaria Nutt.—Orient on beaches and salt marshes.

A. hastata L.—Beaches and salt marshes; also *Atriplex littoralis* L., specimens in N. Y. State Herbarium.

Chenopodium album L.

C. ambrosioides L.

C. glaucum L.—Orient, 10 Oct. 1910, a recent introduction from New York City in stable manure.

C. hybridum L.—Orient on sandy beaches and salt marshes.

C. leptophyllum (Moq.) Nutt.—Orient on sandy beaches.

C. urbicum L.—Orient.

Dondia maritima (L.) Druce.

Salicornia ambigua Mx.

S. Bigelovii Torr.

S. europaea L.—The *Salicornias* determined by Dr. C. H. Peck.

Salsola Kali L.—Specimens in N. Y. State Herbarium.

PHYTOLACCACEAE

Phytolacca americana L.—(*Phytolacca decandra* L.)

AIZOACEAE

Mollugo verticillata L.

Sesuvium maritimum (Walt.) BSP.—Gardiner's Island; specimens in N. Y. State Herbarium.

PORTULACACEAE

Claytonia virginica L.—Rare at East Marion.

Portulaca oleracea L.

AL SINACEAE

Alsine graminea (L.) Britton—Rare at Orient.

A. media L.

Arenaria serpyllifolia L.—Orient.

Cerastium viscosum L.—Reported in N. Y. State Mus. Bull. 139: 33. 1910.

C. vulgatum L.

Honkenya peploides (L.) Ehrh.—Orient on beaches; specimens in N. Y. State Herbarium. (*Arenaria peploides* L.)

Moehringia lateriflora (L.) Fenzl.

Sagina decumbens (Ell.) T. & G.—Rare at East Marion; reported in N. Y. State Mus. Bull. 150: 48. 1911.

S. procumbens L.

Spergula arvensis L.

Tissa marina (L.) Britton—Specimens in N. Y. State Herbarium.

T. rubra (L.) Britton—Rare at Orient.

CARYOPHYLLACEAE

Agrostemma Githago L.

Dianthus Armeria L.

Lychnis alba Mill.—Roadsides.

L. Coronaria (L.) Desr.—Rare at Orient.

L. dioica L.—Rare at Orient.

Saponaria officinalis L.

Silene antrirrhina L.

S. caroliniana Walt.—Orient and Southold in sandy soil.

S. latifolia (Mill.) Britton & Rendle—Rare.

S. noctiflora L.—Rare at Orient.

S. stellata (L.) Ait.—Rare at Orient.

Vaccaria Vaccaria (L.) Britton—Rare at Orient.

NYMPHAEACEAE

Castalia odorata (Dryand.) Woodv. & Wood.

MAGNOLIACEAE

Liriodendron Tulipifera L.—Rare at Greenport.

RANUNCULACEAE

Anemone quinquefolia L.

A. virginiana L.

Aquilegia canadensis L.—Rare at Orient.

Caltha palustris L.—Rare at Southold in wet places.

Clematis virginiana L.

Halerpestes Cymbalaria (Pursh) Greene—Waste places at Orient; determined at Bureau of Plant Industry. (*Ranunculus Cymbalaria* Pursh.)

Ranunculus abortivus L.—Rare at Orient.

R. acris L.—Rare at Greenport and Southold.

R. bulbosus L.

R. delphinifolius Torr.—Rare at Orient.

R. recurvatus Poir.—Greenport; plants with a bulbous base (!).

R. sceleratus L.—Rare at Greenport and Southold in muddy places.

Thalictrum polygamum Muhl.

T. revolutum DC.—Orient. (*Thalictrum purpurascens* Am. auth.)

BERBERIDACEAE

Berberis vulgaris L.

LAURACEAE

Benzoin aestivale (L.) Nees—Greenport and Gardiner's Island in wet woods.

Sassafras Sassafras (L.) Karst.

PAPAVERACEAE

Glaucium Glaucium (L.) Karst.—Rare at Orient; but frequent on Gardiner's Island.

Papaver Rhoeas L.—Rare at Orient.

P. somniferum L.—Rare at Orient.

CRUCIFERAE

Alyssum alyssoides L.—Rare at Orient; determined at Bureau of Plant Industry.

Arabis glabra (L.) Bernh.—Sandy soil (purplish plants).

Armoracia Armoracia (L.) Britton—Rare at Orient. (*Roripa Armoracia* (L.) A. S. Hitchc.)

Barbarea Barbarea (L.) MacM.

B. verna (Mill.) Aschers—Rare at Orient; determined at Bureau of Plant Industry.

Berteroa incana (L.) DC.—Rare at Orient in meadows.

Brassica campestris L.—Cultivated fields.

B. juncea (L.) Cosson—Rare at Orient.

B. Napus L.

B. nigra (L.) Koch—Rare in waste ground.

Bursa Bursa-pastoris (L.) Britton.

Cakile edentula (Bigel.) Hook.—Upper edge of salt marshes.

Camelina sativa (L.) Crantz—Orient in grain fields; reported in N. Y. State Mus. Bull. 150: 24. 1911.

Cardamine arenicola Britton—Greenport; specimens in N. Y. State Herbarium.

C. pennsylvanica Muhl.—Orient in muddy places.

Draba verna L.—Dry hilly shaded places.

Erysimum officinale L.—(*Sisymbrium officinale* (L.) Scop.)

Koniga maritima (L.) R. Br.—Rare at Orient.

Lepidium campestre (L.) R. Br.—Meadows.

L. densiflorum Schrad.—Rare at Orient. (Formerly confused with *Lepidium apetalum* Willd.)

L. sativum L.—Meadows.

L. virginicum L.

Norta altissima (L.) Britton—Rare at Orient in meadows. (*Sisymbrium altissimum* L.)

Radicula palustris (L.) Moench—(*Roripa palustris* (L.) Bess.)

Raphanus Raphanistrum L.

R. sativus L.—Grain fields.

Sinapis arvensis L.—(*Brassica arvensis* (L.) BSP.)

Sisymbrium Nasturtium-aquaticum L.—Rare at Orient. (*Roripa Nasturtium* (L.) Rusby.)

Sophia Sophia (L.) Britton—Rare at Orient.

DROSERACEAE

Drosera intermedia Hayne

D. rotundifolia L.—Rare at Southold.

CRASSULACEAE

Sedum triphyllum (Haw.) S. F. Gray—Rare. (*Sedum telephium* Am. auth.)

SAXIFRAGACEAE

Micranthes virginiana (Mx.) Small—Rare at Orient. (*Saxifraga virginiana* Mx.)

HAMAMELIDACEAE

Hamamelis nivirgiana L.—Greenport, Southold and Gardiner's Island in moist woods; no Orient records.

GROSSULARIACEAE

Grossularia Cynosbati (L.) Mill.—Orient in woods. (*Ribes Cynosbati* L.)

G. oxyacanthoides (L.) Mill.

Ribes vulgare Lam.—Orient. (Formerly confused with *Ribes rubrum* L.)

PLATANACEAE

Platanus occidentalis L.

ROSACEAE

Agrimonia gryposepala Wallr.

Argentina Anserina (L.) Rydb.—Orient and Gardiner's Island on beaches and salt marshes.

Fragaria vesca L.—Woods.

F. virginiana Duchesne—Hills and swamps (variable).

Geum canadense Jacq.

Geum flavum (Porter) Bicknell—Greenport.

G. virginianum L.

Potentilla argentea L.—Orient.

P. canadensis L.

P. monspeliensis L.

P. pumila Poir.—Orient and East Marion.

P. simplex Mx.—Orient.

Rosa carolina L.—Sometimes the bushes are almost wholly unarmed.

R. cinnamomea L.—Rarely escaped at Orient.

R. rubiginosa L.—Sandy soil and shaded places.

R. rugosa Thunb.—Rarely escaped at Orient on sandy beaches; determined at Bureau of Plant Industry.

R. virginiana Mill.—Both forms occur, *Rosa humilis* Marsh. and *Rosa lucida* Ehrh.
Rubus alleghaniensis Porter.

R. hispida L.—Sandy bogs.

R. occidentalis L.

R. phoenicolasmus Maxim.—Orient, established in woods.

R. procumbens Muhl.

R. strigosus Mx.

Sanguisorba canadensis L.—Greenport in wet woods.

Spirea latifolia (Ait.) Borkh.—Wet places.

S. tomentosa L.—Orient.

MALACEAE

Amelanchier canadensis (L.) Medic.

Aronia arbutifolia (L.) Ell.—Orient.

A. atropurpurea Britton.

A. melanocarpa (Mx.) Britton.—Orient.

Crataegus chrysocarpa Ashe—Rare at Orient. (*Crataegus rotundifolia* (Ehrh.) Borkh.)

C. Crus-Galli L.

C. monogyna Jacq.—Rare at Greenport. (Formerly confused with *Crataegus Oxyacantha* L.)

Malus Malus (L.) Britton.

AMYGDALACEAE

Padus virginiana (L.) Mill.—(*Prunus serotina* Ehrh.)

Prunus americana Marsh.—Rare at Orient.

P. Avium L.—Roadsides.

P. Cerasus L.—Wood margins.

P. domestica L.—Rare, a degenerate form.

P. maritima Wang.—Rare at Greenport; but more abundant at Orient, Southold and Gardiner's Island.

CAESALPINIACEAE

Chamaecrista fasciculata (Mx.) Greene.

Gleditschia triacanthos L.—Rare at Orient.

FABACEAE

Baptisia tinctoria (L.) R. Br.

Coronilla varia L.—Rare at Greenport; specimens in N. Y. State Herbarium.

Cracca virginiana L.—Mattituck.

Falcata comosa (L.) Ktze.—Rare at Orient in rich woods.

Glycine Apios L.—Swamps; plants sometimes with 3 leaflets. (*Apios Apios* (L.) MacM.)

Lathyrus maritimus (L.) Bigel.

L. spicata Mx.

L. frutescens (L.) Britton—Southold.

L. hirta (L.) Hornem.

L. procumbens Mx.—East Marion.

L. Stuwei Nutt.—Southold.

L. violacea (L.) Pers.—Greenport and Southold.

L. virginica (L.) Britton—Southold.

Lupinus perennis L.—Southold in sandy soil.

Medicago hispida Gaertn.—Rare at Greenport.
M. lupulina L.—Greenport.
M. sativa L.—Rare in meadows.
Meibomia canadensis (L.) Ktze.—Rich woods.
M. Dillenii (Darl.) Ktze.—Greenport and Southold in rich woods.
M. grandiflora (Walt.) Ktze.
M. nudiflora (L.) Ktze.—Southold.
M. viridiflora (L.) Ktze.—Rare at Greenport; determined at Bureau of Plant Industry.
Melilotus alba Desv.—Greenport.
Phaseolus polystachyus (L.) BSP.—Orient in woods.
Robinia Pseudo-Acacia L.
R. viscosa Vent.
Strophostyles helvola (L.) Britton—Near beaches; specimens in N. Y. State Herbarium.
Trifolium agrarium L.
T. arvense L.
T. hybridum L.—Meadows.
T. incarnatum L.—Rare.
T. pratense L.
T. procumbens L.—Rare.
T. repens L.
Vicia angustifolia L.—Orient; also the var. *segetalis* (Thuill.) Koch; reported in N. Y. State Mus. Bull. 150: 49. 1911.
V. hirsuta (L.) Koch—Rare at Orient; determined at Bureau of Plant Industry.

GERANIACEAE

Erodium cicutarium (L.) L'Her.—Mattituck.
Geranium maculatum L.
Robertella Robertiana (L.) Hanks—(*Geranium Robertianum* L.)

OXALIDACEAE

Xanthoxalis Brittoniae Small
X. stricta (L.) Small.

LINACEAE

Cathartolinum striatum (Walt.) Small—Brackish meadows and wet woods. *Linum striatum* Walt.
C. virginianum (L.) Reichenb.
Linum usitatissimum L.—Rare in grain fields.

BALSAMINACEAE

Impatiens biflora Walt.—Greenport, Southold and Gardiner's Island in wet places.

SIMAROUBACEAE

Ailanthes glandulosa Desf.—Rare at Greenport.

POLYGALACEAE

Polygala cruciata L.—Orient.
P. lutea L.—Rare at Greenport.

P. paucifolia Willd.—Orient, the station destroyed by cultivation; determined at New York Botanical Garden.

P. polygama Walt.—Dry open woods.

P. verticillata L.—Dry hilly soil.

P. viridescens L.—Moist woods.

EUPHORBIACEAE

Acalypha gracilens A. Gray.

A. virginica L.

Chamaesyce maculata (L.) Small—Cultivated fields. (*Euphorbia maculata* L.)

C. polygonifolia (L.) Small.

Tithymalus Cyparissias (L.) Hill—Roadsides. (*Euphorbia Cyparissias* L.)

T. Lathyrus (L.) Hill—Rare at Orient in waste places; determined at Bureau of Plant Industry.

CALLITRICHACEAE

Callitricha heterophylla Pursh—Edge of a pond in woods at Greenport; determined at Bureau of Plant Industry.

C. palustris L.—Rare at Orient in a pond, 1908; determined at New York Botanical Garden. Not found since and perhaps the many years of drought have killed the roots.

ANACARDIACEAE

Rhus copallina L.

R. glabra L.

Toxicodendron radicans (L.) Ktze.—Plants may be either low or high climbing; the leaves sometimes toothed. (*Rhus radicans* L.)

T. vernix (L.) Ktze.—Rare.

ILICACEAE

Ilex bronxensis Britton—Rare at Orient; specimens in N. Y. State Herbarium.

I. glabra (L.) A. Gray—Rare at East Marion.

I. verticillata (L.) A. Gray.

CELASTRACEAE

Celastrus scandens L.

ACERACEAE

Acer carolinianum Walt.—Rare on Gardiner's Island. (*Acer rubrum tridens* Wood.)

A. Negundo L.—Escaped at Orient.

A. rubrum L.

A. saccharinum L.

RHAMNACEAE

Ceanothus americanus L.—Rare at Southold.

Rhamnus cathartica L.—Orient.

VITACEAE

Parthenocissus quinquefolia (L.) Planch.

Vitis aestivalis Mx.

V. bicolor LeConte.

V. Labrusca L.—Moist thickets.

TIKIACEAE

Tilia americana L.

MALVACEAE

Abutilon Abutilon (L.) Rusby—Orient in cultivated fields.

Hibiscus Moscheutos L.

H. Trionum L.—Rare at Greenport.

Malva rotundifolia L.

HYPERICACEAE

Hypericum canadense L.—Wet meadows; specimens in N. Y. State Herbarium.

H. majus (A. Gray) Britton—Moist places.

H. muticum L.—Moist places.

H. perforatum L.

H. punctatum Lam.—(*Hypericum maculatum* Walt.)

Sarothra gentianoides L.

Triadenum virginicum (L.) Raf.

CISTACEAE

Crocanthemum canadense (L.) Britton—East Marion. (*Helianthemum canadense* (L.) Mx.)

C. majus (L.) Britton—East Marion.

Hudsonia tomentosa Nutt.—Orient, Southold and Gardiner's Island on sandy beaches.

Lechea intermedia Leggett—Orient.

L. Leggettii Britt. & Holl.—Orient.

L. maritima Leggett.

L. racemulosa Lam.—Orient and Greenport; specimens in N. Y. State Herbarium.

L. villosa Ell.—Dry woods.

VIOLACEAE

Viola cucullata Ait.—Swamps.

V. fimbriatula J. E. Sm.

V. lanceolata L.

V. pallens (Banks) Brainerd.

V. papilionacea Pursh—The var. *domestica* Bicknell in old lawns.

V. pedata L.—East Marion and Greenport.

V. primulifolia L.—Greenport.

CACTACEAE

Opuntia *Opuntia* (L.) Coulter.—Rare at Orient in sandy soil.

LYTHRACEAE

Decodon verticillatus (L.) Ell.

MELASTOMACEAE

Rhexia virginica L.—Rare at Orient.

ONAGRACEAE

Chamaenerion angustifolium (L.) Scop.—Rare at Orient.

Circaeaa lutetiana L.

Epilobium adenocaulon Haussk.

E. coloratum Muhl.—Orient.

E. lineare Muhl.—Rare at Orient.

E. palustre L.—Rare at Orient.

E. strictum Muhl.—Rare at Orient.

Isnardia palustris L.—Wet places.

Kneiffia Alleni (Britton) Small—Orient.

K. fruticosa (L.) Raimann—Also the var. *pilosella* Britton.

K. linearis (Mx.) Spach—Orient.

K. longipedicellata Small—Orient.

K. pumila (L.) Spach.

Ludwigia alternifolia L.—Swampy places.

Oenothera biennis L.

O. Oakesiana Robbins—Orient.

HALORAGIDACEAE

Myriophyllum humile (Raf.) Morong—Rare at East Marion.

M. pinnatum (Walt.) BSP.—Greenport in a pond; determined by P. L. Ricker.

Proserpinaca palustris L.—Orient.

ARALIACEAE

Aralia nudicaulis L.

A. racemosa L.—Rare at Greenport.

AMMIACEAE

Angelica atropurpurea L.—Rare at East Marion; specimens in N. Y. State Herbarium.

Cicuta maculata L.

Daucus Carota L.

Foeniculum Foeniculum (L.) Karst.—Escaped at Orient.

Heracleum lanatum Mx.

Ligusticum scoticum L.—Orient, edge of woods bordering salt marshes; reported in N. Y. State Mus. Bull. 139: 25. 1910.

Pastinaca sativa L.—Rare.

Ptilimnium capillaceum (Mx.) Raf.

Sanicula canadensis L.

S. marylandica L.

Sium cicutaefolium Schrank—Swampy woods.

Washingtonia Claytoni (Mx.) Britton—Orient; specimens in N. Y. State Herbarium. *W. longistylis* (Torr.) Britton—Rare.

CORNACEAE

Cornus femina Mill.—Rare at Orient but more abundant at East Marion and Southold. (*Cornus candidissima* Marsh.)

C. stolonifera Mx.—Rare at Orient, edge of a swamp.

Cynoxylon floridum (L.) Raf.—(*Cornus florida* L.)

Nyssa sylvatica Marsh.

CLETHRACEAE

Clethra alnifolia L.

PYROLACEAE

Chimaphila maculata (L.) Pursh.

C. umbellata (L.) Nutt.—Rare at Orient but more common at East Marion.

Pyrola americana Sweet.

P. elliptica Nutt.

MONOTROPACEAE

Hypopitys lanuginosa (Mx.) Nutt.—In oak woods; the plants crimson.

Monotropa uniflora L.

ERICACEAE

Azalea nudiflora L.—Rare at Greenport in swamps.

A. viscosa L.—Greenport and Orient in sandy swamps.

Epigaea repens L.—East Marion.

Eubotrys racemosa (L.) Nutt.—Rare at Greenport in swamps. (*Leucothoë racemosa* (L.) A. Gray.)

Gaulthera procumbens L.—Rare at Southold.

Kalmia angustifolia L.—Mattituck.

K. latifolia L.—East Marion and Southold.

Uva-Ursi *Uva-Ursi* (L.) Britton—Orient. (*Arctostaphylos Uva-Ursi* (L.) Spreng.)

Xolisma ligustrina (L.) Britton.

VACCINIACEAE

Gaylussacia baccata (Wang.) K. Koch—In woods.

Oxycoccus macrocarpus (Ait.) Pursh—Plants bearing two forms of fruit occur; taller plants bear oblong fruit and are rarer.

Vaccinium angustifolium Ait.—(*Vaccinium pensylvanicum* Lam.)

V. atrococcum (A. Gray) Heller—In swamps.

V. corymbosum L.

V. vacillans Kalm—In woods.

PRIMULACEAE

Anagallis arvensis L.

Lysimachia Nummularia L.—Rare at Orient.

L. quadrifolia L.

L. terrestris (L.) BSP.

Samolus floribundus HBK.—Orient.

Steironema ciliatum (L.) Raf.—Gardiner's Island in low woods; determined by Norman Taylor.

Trientalis americana Pursh.

PLUMAGINACEAE

Limonium carolinianum (Walt.) Britton.

OLEACEAE

Fraxinus americana L.—Greenport.

Ligustrum vulgare L.

Syringa vulgaris L.

GENTIANACEAE

Bartonia virginica (L.) BSP.—Rare.

Sabbatia stellaris Pursh—Orient on salt marshes; specimens in N. Y. State Herbarium.

APOCYNACEAE

Apocynum androsaemifolium L.

A. cannabinum L.—Rare at Orient; plants with the leaves lightly pubescent beneath.

A. medium Greene—Rare at Orient.

A. pubescens R. Br.—Rare at Orient; specimens in N. Y. State Herbarium.

A. sibiricum Jacq.—(*Apocynum album* Greene.)

Vinca minor L.—Roadsides at Greenport.

ASCLEPIADACEAE

Asclepias amplexicaulis J. E. Smith—Rare at Orient.

A. purpurascens L.—Orient.

A. pulchra Ehrh.—Orient in low ground.

A. syriaca L.—Specimens in N. Y. State Herbarium.

A. tuberosa L.—Rare at East Marion, Greenport and Southold.

A. verticillata L.—Rare at Orient.

CONVOLVULACEAE

Convolvulus repens L.—Orient.

C. sepium L.—Orient; the flowers white or pinkish.

Ipomoea purpurea (L.) Lam.—Escaped.

CUSCUTACEAE

Cuscuta arvensis Beyrich—Orient and Southold.

C. compacta Juss.—Greenport on *Clethra* and *Cephalanthus*.

C. Gronovii Willd.

POLEMONIACEAE

Phlox paniculata L.—Rarely escaped at Orient.

P. subulata L.—The two stations at Orient have recently been destroyed by cultivation.

BORAGINACEAE

Cynoglossum officinale L.—Rare at Orient.

Myosotis arvensis (L.) Hill—Rare at Orient in cultivated grounds; determined at Bureau of Plant Industry.

M. virginica (L.) BSP.—Rare at Orient; specimens in N. Y. State Herbarium.

Onosmodium virginianum (L.) DC.—Rare at Orient on sandy beaches.

VERBENACEAE

Verbena hastata L.

V. urticifolia L.—Shaded places.

LABIATAE

Agastache nepetoides (L.) Ktze.—Gardiner's Island in rich woods.

Clinopodium vulgare L.—Gardiner's Island in rocky woods.

Collinsonia canadensis L.—Gardiner's Island in rich woods.

Glecoma hederacea L.—Rare at Orient.

Hedeoma pulegioides (L.) Pers.—Rare in shaded places.

Koellia flexuosa (Walt.) MacM.—Orient.

K. mutica (Mx.) Britton—Rare at Orient.

K. virginiana (L.) MacM.—Rare at Orient.

Lamium amplexicaule L.—Orient in cultivated fields.

Leonurus Cardiaca L.—Rare.

Lycopus americanus Muhl.

L. membranaceus Bicknell.

L. sessilifolius A. Gray—Southold.

L. uniflorus Mx.

L. virginicus L.

Marrubium vulgare L.—Orient.

Melissa officinalis L.—Rare at Greenport.

Mentha gentilis L.—Rare at Orient along roads.

M. piperita L.—Rare at Orient.

M. spicata L.

Nepeta Cataria L.

Prunella vulgaris L.

Scutellaria galericulata L.—Swamps.

S. lateriflora L.—Orient and Greenport in low woods.

Teucrium canadense L.—Sandy beaches and rocky woods; specimens in N. Y. State Herbarium.

Trichostema dichotomum L.—Plants with pink flowers (!); reported in N. Y. State Mus. Bull. 157: 43. 1912.

SOLANACEAE

Datura Stramonium L.—Gardiner's Island and elsewhere.

Lycium halimifolium Mill.—Rare.

Lycopersicon Lycopersicon (L.) Karst.—Escaped.

Physalis peruviana L.—Escaped at Orient in waste places and in gardens.

Physalodes physalodes (L.) Britton—Escaped at Orient.

Solanum Dulcamara L.—Rare.

S. nigrum L.—Rare on sandy beaches.

SCROPHULARIACEAE

Agalinis maritima Raf.—Orient on salt marshes; specimens in N. Y. State Herbarium. (*Gerardia maritima* Raf.)

A. purpurea (L.) Britton—Orient; specimens in N. Y. State Herbarium.

A. tenuifolia (Vahl) Raf.—Dry hills.

Chelone glabra L.—Rare at Greenport.

Dasystoma flava (L.) Wood—Greenport.

D. pedicularia (L.) Benth.—East Marion.

D. virginica (L.) Britton.

Gratiola aurea Muhl.—Rare at Orient.

Ilysanthes attenuata (Muhl.) Small—Orient.

I. dubia (L.) Barnh.—Orient.

Linaria canadensis (L.) Dum.

L. Linaria (L.) Karst.

Melampyrum lineare Lam.—The leaves are variable in outline.

Mimulus ringens L.—Greenport.

Pedicularis canadensis L.—Orient.

Scrophularia leporella Bicknell—Rare at Orient.

Verbascum Blattaria L.

V. Thapsus L.

Veronica arvensis L.—Orient.

V. officinalis L.—East Marion.

V. peregrina L.—Orient.

V. serpyllifolia L.

LENTIBULARIACEAE

Setiscapella cleistogama (A. Gray) Barnhart—Southold; determined at Bureau of Plant Industry. (*Utricularia cleistogama* (A. Gray) Britton.)

Stomoisia cornuta (Mx.) Raf.—Southold. (*Utricularia cornuta* Mx.)

OROBANCHACEAE

Leptamnium virginianum (L.) Raf.—Greenport.

Thalesia uniflora (L.) Britton—Rare at Orient.

BIGNONIACEAE

Bignonia radicans L.—Rarely escaped at Orient. (*Tecomia radicans* (L.) DC.)

PHRYMACEAE

Phryma Leptostachya L.—Gardiner's Island and Greenport in woods.

PLANTAGINACEAE

Plantago aristata Mx.

P. halophila Bicknell—Orient on salt marshes; plants earlier to flower and more downy than *Plantago major* L.

P. lanceolata L.

P. major L.

P. maritima L.—Orient; specimens in N. Y. State Herbarium.

P. media L.

P. pusilla Pursh—Rare on dry hilltops; specimens in N. Y. State Herbarium.

P. Rugelii Dcne.—East Marion, shores of a pond.

P. virginica L.—East Marion in sandy soil.

RUBIACEAE

Cephalanthus occidentalis L.

Galium Aparine L.—Orient in low rich shaded places.

G. circaeans Mx.—Rich woods.

G. Claytoni Mx.—Low grounds.

G. lanceolatum Torr.—Rare at Orient; determined at N. Y. Botanical Garden.

G. palustre L.—Greenport.

G. pilosum Ait.—Rare at Orient; the flowers purple.

G. tinctorium L.—Greenport in swampy woods.

G. triflorum Mx.—Greenport.

Mitchella repens L.—Plants sometimes having unusually large leaves.

CAPRIFOLIACEAE

Diervilla Diervilla (L.) MacM.

Lonicera japonica Thunb.—Orient and East Marion in woods.

L. sempervirens L.—East Marion.

Sambucus canadensis L.

S. racemosa L.—Rare at Orient, the station now destroyed; determined at Bureau of Plant Industry.

Triosteum aurantiacum Bicknell.

T. perfoliatum L.—Rare at Orient.

Viburnum acerifolium L.—More abundant at Greenport than at Orient.

V. dentatum L.—“A form with leaves decidedly acuminate”; reported in N. Y. State Mus. Bull. 150: 49. 1911.

V. Lentago L.—Rare at Orient.

V. venosum Britton—Rare at East Marion in swamps; reported in N. Y. State Mus. Bull. 150: 41. 1911.

VALERIANACEAE

Valeriana officinalis L.—Orient.

CAMPANULACEAE

Campanula rapunculoides L.—Rarely escaped at Orient.
Specularia perfoliata (L.) A. DC.—Rare in hilly woods.

LOBELIACEAE

Lobelia cardinalis L.—Rare from Greenport to Southold.
L. inflata L.
L. syphilitica L.—Rare at Orient in low ground.

CICHORIACEAE

Apargia nudicaulis (L.) Britton—Specimens in N. Y. State Herbarium. (*Leontodon nudicaule* (L.) Banks.)
Cichorium Intybus L.—Orient.
Crepis capillaris (L.) Wallr.—Orient. (*Crepis virens* L.)
C. setosa Hall. f.—Reported in N. Y. State Mus. Bull. 150: 29. 1911.
C. tectorum L.—Rare at Orient; determined by Dr. C. H. Peck.
Hieracium aurantiacum L.—Rare at Orient.
H. Gronovii L.—Orient; specimens in N. Y. State Herbarium.
H. paniculatum L.—Greenport.
H. scabrum Mx.—Plants with more naked stems than usual; specimens in N. Y. State Herbarium.
H. venosum L.
Hypochaeris radicata L.—Orient; specimens in N. Y. State Herbarium.
Krigia virginica (L.) Willd.—Orient in light soil.
Lactuca canadensis L.—Cedar woods and elsewhere; also the var. *montana* Britton.
L. sagittifolia Ell.—Orient.
L. spicata (Lam.) Hitchc.
Lapsana communis L.—Rare at Orient; determined by P. L. Ricker.
Leontodon erythrospermum (Andrz.) Britton—Light soil and on sandy beaches at Orient. (*Taraxicum erythrospermum* Andrz.)
L. Taraxicum L.
Nabalus serpentarius (Pursh) Hook.—Greenport.
N. trifoliolatus Cass.
Picris echooides L.—Reported in N. Y. State Mus. Bull. 139: 28. 1910.
P. hieracoides L.—Rare at Orient; determined by Dr. C. H. Peck; reported in N. Y. State Mus. Bull. 150: 37. 1911.
Sonchus arvensis L.—Rare at Orient.
S. asper (L.) Hill.—Orient.
S. oleraceus L.

AMBROSIACEAE

Ambrosia elatior L.—(*Ambrosia artemisiaefolia* L.)
A. trifida L.—Rare at Orient in cultivated fields.
Xanthium commune Britton—Orient on beaches.
X. spinosum L.—Rare on Gardiner's Island.

COMPOSITAE

Achillea Millefolium L.—Also the *forma rosea*.
Anaphallis margaritacea (L.) Benth. & Hook.—Rare.

Antennaria neglecta Greene.

A. plantaginifolia (L.) Richards.

Anthemis arvensis L.—Rare at Orient in meadows and waste places.

A. Cotula L.

A. tinctoria L.—Rare at Orient in meadows; specimens in N. Y. State Herbarium.

Arctium minus Schkr.

Artemisia caudata Mx.—Determined by Dr. C. H. Peck.

A. Stellariana Bess.—Orient on beaches.

Aster cordifolius L.—Greenport.

A. divaricatus L.—Woods.

A. dumosus L.—Orient in sandy soil.

A. ericoides L.—Southold.

A. laevis L.—Low woods; also the long-leaved form.

A. lateriflorus (L.) Britton—Orient in woods.

A. macrophyllus L.—The plants are variable.

A. multiflorus Ait.

A. novae-angliae L.—More common on Gardiner's Island than at Orient.

A. novi-belgii L.—Low grounds.

A. paniculatus Lam.

A. patens Ait.—Dry hills.

A. puniceus L.

A. salicifolius Lam.—Orient in low places.

A. spectabilis Ait.—Orient; also a form with white flowers.

A. subulatus Mx.

A. tenuifolius L.

A. Tradescanti L.

A. undulatus L.

A. vimineus Lam.

Baccharis halimifolia L.—Orient about salt marshes.

Bidens cernua L.

B. comosa (A. Gray) Wiegand—Low grounds.

B. connata Muhl.—Low grounds; also a form with entire leaves.

B. discoidea (T. & G.) Britton.

B. frondosa L.

B. laevis (L.) BSP.

Centaurea Cyanus L.—Rare at Orient.

C. Jacea L.—Rare at Orient in a dry pasture.

Chrysanthemum Leucanthemum L.

Chrysopsis falcata (Pursh) Ell.—Orient and Southold.

C. mariana (L.) Ell.

Cirsium arvense (L.) Scop.

C. discolor (Muhl.) Spreng.

C. horridulum Mx.—Specimens in N. Y. State Herbarium. (*Cirsium spinosissimum* (Walt.) Scop.)

C. lanceolatum (L.) Hill.—Moist places.

C. muticum Mx.—Rare at Orient.

C. odoratum (Muhl.) Britton.

Doellingeria umbellata (Mill.) Nees.

Erechtites hieracifolia (L.) Raf.—Two forms occur, hairy and smooth plants; specimens in N. Y. State Herbarium.

Erigeron annuus (L.) Pers.

E. philadelphicus L.

E. pulchellus Mx.

E. ramosus (Walt.) BSP.

Eupatorium aromaticum L.—Southold.

E. hyssopifolium L.—Southold.

E. maculatum L.—Orient in low grounds.

E. perfoliatum L.

E. purpureum L.

E. verbenaefolium Mx.

Euthamia graminifolia (L.) Nutt.

E. tenuifolia (Pursh) Greene—Southold.

Galinsoga parviflora Cav.—Orient along roads; the var. *hispida* DC.

Gnaphalium obtusifolium L.

G. uliginosum L.

Helianthus annuus L.—Rarely escaped at Orient.

H. divaricatus L.

H. giganteus L.

H. strumosus L.

H. tuberosus L.

Lacinaria spicata (L.) Ktze.—Orient, a colony of 50 or more plants; specimens in N. Y. State Herbarium.

Leptilon canadense (L.) Britton.

Mariana mariana (L.) Hill—Orient in a garden; specimens in N. Y. State Herbarium.

Onopordum Acanthium L.—More common on Gardiner's Island than at Orient and East Marion; specimens in N. Y. State Herbarium.

Pulchea camphorata (L.) DC.

Rudbeckia hirta L.

Senecio aureus L.—Rare at Orient.

S. vulgaris L.—Rare in cultivated fields.

Seriocarpus asteroides (L.) BSP.

Solidago altissima L.

S. aspera Ait.—Reported in N. Y. State Mus. Bull. 139: 30. 1910.

S. bicolor L.

S. caesia L.

S. juncea Ait.—Plants variable.

S. nemoralis Ait.

S. odora Ait.

S. rugosa Mill.—The broad-leaved form and the form with small leaves.

S. sempervirens L.

S. serotina Ait.—Orient in swamps.

S. ulmifolia Muhl.

Tanacetum vulgare L.

Vernonia noveboracensis (L.) Willd.—Orient.

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THE FLORA OF THE TOWN OF SOUTHOLD, LONG ISLAND AND GARDINER'S ISLAND

BY STEWART H. BURNHAM AND ROY A. LATHAM

FIRST SUPPLEMENTARY LIST

The preliminary flora was published in *Torreya* 14: 201-225. Nov. 1914 and 229-254. Dec. 1914. The majority of the enumerated plants were collected in 1915. Mr. Frank Dobbin of Shushan, N. Y., also visited Orient Aug. 10-15, 1915, and spent considerable of the time collecting.

The territory of the region included in this flora lies wholly in the glaciated region. Along the shore of Long Island Sound is the obscure inner moraine of the Wisconsin ice sheet; and from this moraine is an outwash of thin deposits forming sandy plains over the older Pleistocene formation which shows through and in places controls the topography. Some of the beaches and many of the swamps and marshes belong to the Recent epoch. Gardiner's Island lies between the inner and outer moraines of the Wisconsin ice sheet: and being of more rugged topography "seems to have encouraged a more extensive reworking of the" older Pleistocene "deposits by the Wisconsin ice and a greater deposition of" the till sheet or ground moraine. ("The Geology of Long Island," by Myron L. Fuller, U. S. Geol. Survey Professional Paper 82: Washington. 1914.)

The authors are greatly indebted to many specialists, who have made it possible to publish the following catalogue of species.

INSECT GALLS*

Andricus cornigerus O. S.—Horned Knot Oak Gall.

Asphondylia globosus O. S.—On stems of *Helianthus divaricatus*.

* The majority of these galls were named by Dr. E. P. Felt, state entomologist of the State of New York.

Diastrophus Potentillae Bass.—Cinquefoil Axil Gall; on stems of *Potentilla canadensis*.

Rhopalomyia Solidaginis Loew—Goldenrod Bunch Gall.

Trypeta Solidaginis Fitch—Goldenrod Ball Gall.

THALLOPHYTA

EUTHALLOPHYTA

EUPHYCEAE*

Botrydium granulatum (L.) Grev.—On wet earth.

Griffithsia tenuis Ag.—Long Island Sound.

Polysiphonia violacea (Roth) Grev.—On rocks in the Sound.

Ralfsia verrucosa (Aresch.) J. Ag.—On rocks in shallow water.

Rhizoclonium hieroglyphicum (Ag.) Kütz.—About roots of bushes in a fresh water swamp.

Rivularia atra Roth—On rocks at the water's edge.

Ulothrix implexa Kütz.—On rocks at mid-tide mark, Orient bay.

FUNGI

SCHIZOMYCETES

Bacillus tracheiphilus Erw. Smith—On *Cucumis sativus*; determined by Mr. F. V. Rand.

EUMYCETES

Phytophthora Phaseoli Thaxt.—On *Phaseolus lunatus*; determined by Mr. Rand.

Plasmopara cubensis (B. & C.) Humphrey—On *Cucumis sativus*; determined by Mr. Rand.

ASCOMYCETES (EXCLUDING PYRENOMYCETES)

Chlorosplenium chlora (Schw.) Mass.—On decayed wood of *Quercus coccinea*; determined by Dr. F. J. Seaver.

Dasyscypha Ellisiana (Rehm) Sacc.—On bark of living *Pinus rigida*; determined by Dr. Seaver.

Lecanidion aratum (Hedw.) Rabenh.—On bare wood of *Toxylon pomiferum*; determined by Dr. C. E. Fairman.

Melitosporium hysterinum (Fr.) Gill.—On bare wood of *Juniperus virginiana*; determined by Dr. Fairman.

Pseudopeziza Medicaginis (Lib.) Sacc.—On leaves of *Medicago sativa*; determined by Dr. Fairman.

Taphrina Quercus (Cke.) Sacc.—On leaves of *Quercus velutina*; determined by Dr. H. D. House.

ASCOMYCETES (PYRENOMYCETES)†

Anthostomella sepelibilis (B. & C.) Sacc.—On old stems of *Smilax rotundifolia*.

Botryosphaeria Ribis Grossen. & Duggar—On old stems of cultivated *Grossularia*.

* The algae were determined by Dr. M. A. Howe and are preserved in the Herbarium of the New York Botanical Garden.

† Unless otherwise stated, the *Pyrenomycetes* were determined by Dr. C. E. Fairman.

Cucurbitaria elongata (Fr.) Grev.—On old twigs of *Robinia Pseudo-Acacia*; also the macropycnidial stage, *Hendersonia Robiniae* West: determined by Dr. House.

Diaporthe ocularia (C. & E.) Sacc.—On twigs and branches of *Ilex verticillata*.

D. rhoina (C. & E.) F. & E.—On twigs and branches of *Rhus copallina*.

Diatrypella Cephalanthi (Schw.) Sacc.—On twigs of *Cephalanthus occidentalis*.

Dothidea ribesia (Pers.) Fr.—On old stems of cultivated *Grossularia*.

Eutypella deusta (E. & E.) E. & E.—On old wood of oak; determined by Dr. House.

E. prunastri (Pers.) Sacc.—On twigs and branches of *Padus virginiana*.

Fimetaria fimicola (Roberge) Griffiths & Seaver—On old paper.

Gloniopsis Cookeana (Ger.) Sacc.—On sumac, *Myrica carolinensis* and *Xolisma ligustrina*; determined by Dr. House.

G. fibriseda (Ger.) Sacc.—On twigs of *Acer rubrum*.

G. Lonicerae (Phill. & Hark.) Berl. & Vogl.—On twigs of *Lonicera japonica*.

Hypoderma Smilacis (Schw.) Rehm—On dead stems of *Smilax rotundifolia*.

Hypoxylon cohaerens (Pers.) Fr.—On branches of *Fagus grandiflora* at Greenport.

H. smilacicolum Howe—On stems of *Smilax rotundifolia* at Greenport.

Hysterographium Vaccinii (Schw.) Fairman, n. comb.—On twigs of *Vaccinium atrococcum* at Greenport. In Saccardo's *Sylloge Fungorum* this is described as *Hysterium Vaccinii* Schw.

H. vulvatum (Schw.) Sacc.—On *Quercus velutina*; determined by Dr. House.

Laestadia polystigma (E. & E.) Sacc.—On leaves of *Quercus velutina*.

Lophiotrema praemorsum (Lasch) Sacc.—On old stems of *Brassica oleracea gemmifera* (Brussels sprouts).

Lophodermium arundinaceum (Schrad.) Chev.—On *Ammophila arenaria*. Dr. Fairman says, "I have found *L. arundinaceum* in America on grain stems but have no specimens on *Ammophila*: and have no knowledge of its ever having been found here on this host."

Mazzantia sepium Sacc. & Penz.—On stems of *Convolvulus sepium*. Dr. Fairman says, "I have never found it in America; although I have specimens from London, Canada."

Myiocopron Smilacis (DeNot.) Sacc.—On twigs of *Smilax rotundifolia* at Greenport.

Nummularia microplaca (B. & C.) Cke.—On dead branches of *Sassafras Sassafras*. Dr. Fairman says, "Reprinted in this country from the South, Ohio and Virginia."

Phyllachora Cyperi Rehm—On *Cyperus esculentus*; determined by Dr. House.

Physalospora Potentillae Rostr.—On stems and galls of *Potentilla canadensis*. Dr. Fairman says the type of this fungus was found on *Potentilla maculata* in Greenland: and that "it has not been found in this country by anyone before so far as I know. The best specimens of your collection are on the galls," *Diastrophus Potentillae*.

Pleospora herbarum (Pers.) Rabenh.—On stems of *Allium Cepa*, *Asparagus officinalis*, *Vagnera stellata*, *Moehringia lateriflora*, *Silene caroliniana* and *Glaucium Glaucium*.

P. Salsolae Fckl.—On stems of *Salicornia ambigua* and *Salsola Kali*. Dr. Fairman says, "I have never had it from this country: but Ellis and Everhart list it on *Salicornia herbacea*, California (Harkness)."

Rhytisma Ilicis-canadensis Schw.—On leaves of *Ilex verticillata* at Southold; determined by Dr. House.

Valsa Liquidambaris Schw.—On branches of *Hamamelis virginiana*; determined by Dr. House.

V. pauperata C. & E.—On twigs and branches of *Acer rubrum* at Greenport.

HYPOMYCETES

Cercospora Teucrri E. & K.—“Orient Point, on living leaves of *Teucrium canadense*.” N. Y. State Mus. Bull. 179: 26. 1915.

Cladosporium Typhae Schw.—On old leaves and stems of *Typha latifolia*; determined by Dr. Fairman.

Trichoderma lignorum (Tode) Harz.—On bare wood of *Quercus velutina*; determined by Dr. Fairman.

MELANCONIALES

Pestalozzia conigena Lev.—On cones of *Thuja occidentalis*; determined by Dr. Fairman.

SPHAEROPSIDEAE*

Cytospora leucostoma (Pers.) Sacc.—On twigs of *Amygdalus Persica*.

Diplodia hyalospora C. & E.—On old stems of *Chenopodium album*.

D. Maydis (Berk.) Sacc.—On old stalks of *Zea Mays*.

Diplodina Atriplicis Vestgr.—On old stems and withered leaves of *Atriplex hastata*. Dr. Fairman says when this fungus occurs on stems, it is called *Diplodina Atriplicis*; when on leaves, *Ascochyta Atriplicis* Died. On your plants “we have fungi on both, so that it is as you please what you say, *Diplodina* or *Ascochyta*, at present. I have referred yours to *Diplodina* because most prominent on the stems.”

Labrella nitida Schw.—On stems of *Polygonatum commutatum*.

Leptostroma filicinum Fr.—On old stipes of *Athyrium Filix-foemina*.

L. virgulorum Sacc.—On stems of *Aralia nudicaulis*.

Leptostromella hysterioides (Fr.) Sacc.—Determined by Dr. House.

Leptothyrium litigiosum (Desm.) Sacc.—On *Osmunda cinnamomea*; determined by Dr. House.

L. Pomi (Mont. & Fr.) Sacc.—On the skin of the fruit of *Malus Malus*.

Macrophoma pulchrispora (Pk. & Clint.) Sacc.—On stems of *Persicaria pensylvanica*.

Phlyctaena arcuata Berk.—On dead stems of *Arctium minus*.

P. complanata (B. & C.) Sacc.—On dead stems of *Tinctoria Convolvulus*.

Phoma Cydoniae Sacc. & Schulz.—On old fruit of *Cydonia vulgaris* (Quince).

P. longipes B. & C.—“Orient Point on *Morus alba*.” The plant reported in the preliminary list to *Phoma moricola* Sacc. should be referred to this species. N. Y. State Mus. Bull. 188: 37. 1916.

P. media E. & E.—On old stems and branches of *Asparagus officinalis*.

P. nebulosa (Pers.) Sacc.—On dead stems of *Lepidium virginicum*.

P. sepincola (Kickx.) Sacc.—On branches of rambler rose.

P. strobiligena Desm.—On cones of *Thuja occidentalis*.

P. verbascicola (Schw.) Cke.—On stems of *Verbascum Thapsus*.

Phomopsis cryptica (Nits.) Trav.—On twigs of *Lonicera japonica*.

* Unless otherwise stated, the *Sphaeropsidæ* were determined by Dr. C. E. Fairman.

P. occidentalis Sacc., var. *irregularis* Trav.—On twigs and branches of *Gleditschia triacanthos*.

P. vepris (Nits.) Trav.—On stems of *Rubus procumbens*.

Phyllosticta Baccharidis Dearnness & House—"On living leaves of *Baccharis halimifolia*, Orient Point." This species is described in N. Y. State Mus. Bull. 179: 29. 1915: and the type is in the herbarium of the N. Y. State Museum.

P. orobella Sacc.—"On languishing leaves of *Lathyrus maritimus*, Orient Point, New to America." N. Y. State Mus. Bull. 179: 30. 1915.

Rhabdospora Lonicerae (C. & E.) Sacc.—On dead twigs of *Lonicera japonica*. Dr. Fairman says, "a rare find. It was originally found by Ellis on *Lonicera* in New Jersey and sent by him to Cooke who called it *Cryptosporium Lonicerae* C. & E. in Grevillea 6: 83. March 1878. It has curved hyaline spores and really seems to be a good *Cryptosporium*. I do not think Ellis ever found it again."

R. subgrisea Pk.—On stems of *Solidago sempervirens*; determined by Dr. House.

Septoria Caryophyllei Scalia—On leaves of *Dianthus caryophyllus*. Dr. Fairman says, "I presume this has been called *S. Dianthi*: but it agrees better with the above."

S. graminum Desm.—On leaves of *Dactylis glomerata*; determined by Dr. House. *Sphaeronaema acerinum* Pk.—On dead bark and twigs of *Acer rubrum*.

Sphaeropsis Arctostaphylii (Vize) Sacc.—On bare wood.

S. Celastrina Pk.—On *Celastrus scandens*.

S. Juniperi Pk.—On *Juniperus virginiana*; determined by Dr. House.

S. rubicola C. & E.—On stems of *Rubus procumbens*.

S. sepulta E. & E.—On dead twigs of *Morus alba* at Orient Point. N. Y. State Mus. Bull. 188: 53. 1916.

Vermicularia petiolicola P. Brun—On petioles of *Geranium maculatum*.

BASIDIOMYCETES

USTILAGINACEAE

Urocystis Cepulae Frost—On *Allium Cepa*; determined by Dr. G. P. Clinton.

Ustilago Crus-galli Tracy & Earle—On *Echinochloa Crus-galli*; determined by Dr. Clinton.

U. Rabenhorstiana Kühn—On *Syntherisma sanguinale*; determined by Dr. Clinton.

MELAMPSORACEAE*

Melampsora Medusae Thüm.—On leaves of *Populus tremuloides*.

COLEOSPORIACEAE

Coleosporium delicatulum (A. & K.) H. & L.—Southold on leaves of *Euthamia tenuifolia*.

C. Helianthi (Schw.) Arth.—On leaves of *Helianthus divaricatus*.

* Unless otherwise stated the Rusts were determined by Dr. J. C. Arthur and are preserved in the Herbarium of Dr. Arthur at Purdue University, Lafayette, Indiana. The authors are indebted to Dr. Arthur, who has read the manuscript of the Rusts.

PUCCINIACEAE

Gymnosporangium globosum Farl.—Greenport on *Crataegus chrysocarpa*.
Kuehneola Uredinis (Lk.) Arth.—On leaves of *Rubus alleghaniensis*.
Phragmidium americanum Diet.—On leaves of *Rosa blanda*.
P. Potentillae-canadensis Diet.—On leaves of *Potentilla canadensis*.
P. Rosae-setigerae Diet.—On leaves of *Rosa carolina*.
Polythelis Thalictri (Chev.) Arth.—On leaves of *Thalictrum revolutum*. (*Puccinia Thalictri* Chev.)
Puccinia Acetosae (Schum.) Körn.—On leaves of *Rumex Acetosella*. Dr. Arthur says, "this rust has been found at Woods Hole, Massachusetts, in South Carolina and Florida. Your locality making the fourth one."
P. angustata Pk.—Southold and Greenport on *Scirpus cyperinus* and *S. pedicillatus*.
P. canaliculata (Schw.) Lagerh.—On *Cyperus esculentus*, the telial stage; determined by Dr. House.
P. Caricis-strictae Diet.—Southold on *Carex stricta*, the amphisporal stage.
P. Cichorii (DC.) Bell—On leaves of *Cichorium Intybus*.
P. Clematidis (DC.) Lagerh.—On leaves of *Agropyron repens* and *Hordeum sativum*. (*Puccinia Agropyri* E. & E.; *P. agropyrina* Erikss.)
P. Convolvuli (Pers.) Cast.—On leaves of *Convolvulus sepium*.
P. Eleocharidis Arth.—On *Eleocharis tenuis*.
P. epiphylla (L.) Wettst.—On *Poa pratensis*. (*Puccinia poarum* Niessl.)
P. extensicola Plowr.—On *Carex hormathodes*, *C. scoparia*, *C. straminea*, *C. vulpinoides* and *Dulichium arundinaceum*. (*Puccinia Dulichii* Sydow; *P. vulpinoides* Diet. & Holw.)
P. fraxinata (Lk.) Arth.—On *Spartina patens*. Dr. Arthur says we have this rust "on the same host from Delaware and New Jersey; but not before from any point in New York."
P. Grossulariae (Schum.) Lagerh.—Greenport on *Carex debilis*. (*Puccinia uniporula* Orton.)
P. Impatientis (Schw.) Arth.—Gardiner's Island on *Agrostis alba* and *Elymus striatus*. (*Puccinia perminuta* Arth.)
P. Phlei-pratensis Erikss. & Henn.—On *Phleum pratense*.
P. poculiformis (Jacq.) Wettst.—On *Agrostis alba* and *Dactylis glomerata*.
Puccinia Polygoni-amphibii Pers.—On leaves of *Persicaria pensylvanica*, *P. punctata*, *Tiniaria scandens* and *Tovara virginiana*.
P. Prenanthis-racemosae Sydow—Greenport on leaves of *Nabalus trifoliolatus*.
P. Proserpinaceae Farl.—Greenport on leaves of *Proserpinaca palustris*. Dr. Arthur says, "known only from Massachusetts, Illinois and Wisconsin."
P. Rhamni (Pers.) Wettst.—On *Avena sativa*.
P. Smilacis Schw.—Southold on *Smilax glauca*.
P. Xanthii Schw.—On *Xanthium commune*.
Uredinopsis mirabilis (Pk.) Magn.—Gardiner's Island on *Onoclea sensibilis*.
Uromyces fallens (Desmaz.) Kern—On *Trifolium pratense*. (*Nigredo fallens* (Desmaz.) Arth.)
U. Hyperici-frondosi (Schw.) Arth.—Greenport on *Triadenum virginicum*. (*Nigredo Hyperici-frondosi* (Schw.) Arth.)
U. Junci-effusi Sydow—Greenport on *Juncus effusus*. (*Nigredo Junci-effusi* (Sydow) Arth.)

U. minutus Diet.—On *Carex virescens*. (*Nigredo minuta* (Diet.) Arth.)

U. pedatatus (Schw.) J. Sheldon—Southold on *Andropogon virginicus*. (*Nigredo pedatata* (Schw.) Arth.)

U. perigynius Halst.—Greenport on *Carex intumescens*. (*Nigredo perigynia* Halst.) Arth.

U. Polygoni (Pers.) Fckl.—On leaves of *Polygonum aviculare*. (*Nigredo Polygoni* (Pers.) Arth.)

U. Scirpi (Cast.) Burr.—On *Scirpus robustus*.

U. Trifolii (Hedw. f.) Lev.—On leaves of *Trifolium hybridum* and *T. repens*. (*Nigredo Trifolii* (Hedw. f.) Arth.)

U. uniporulus Kern—On *Carex virescens*. (*Nigredo uniporula* (Kern) Arth.)

TREMELLACEAE

Ulocolla foliacea (Pers.) Bref.—On dead bark of *Quercus velutina*; determined by Dr. C. G. Lloyd.

DACYRYOMYCETACEAE

Dacryomyces deliquescens (Bull.) Duby—On rotten wood of oak; determined by Dr. Lloyd.

THELEPHORACEAE

Corticium incarnatum (Pers.) Fr.—On branches of *Sambucus canadensis*; determined by Dr. E. A. Burt.

Stereum albo-badium Schw.—On old stems of *Brassica oleracea gemmifera* (Brussels sprouts); determined by Dr. Burt, who says, "a species I have seen heretofore on woody stems only."

S. fasciatum Schw.—Greenport on dead trunk of *Quercus velutina*; determined by Dr. Lloyd. *Stereum versicolor* Fr. previously listed belongs here.

Tremellodendron pallidum (Schw.) Burt—On earth in low woods at Greenport; determined by Dr. Lloyd. (*Thelephora Schweinitzii* Pk.)

HYDNACEAE

Hydnum imbricatum L.—Moist soil in woods at Greenport; determined by Dr. Lloyd.

POLYPORACEAE*

Boletus Frostii Russell—Rare in rich earth in open woods, Greenport and Gardiner's Island.

Cyclomyces Greeni Berk.—On earth in rich woods, Greenport.

Merulius Corium (Pers.) Fr.—On old bark of *Myrica carolinensis*.

Polyporus adustus (Willd.) Fr.—On old wood of *Quercus velutina* at Greenport.

P. albellus Pk.—On old wood.

P. amygdalinus Berk.—Greenport on stump of *Quercus velutina*. Dr. Lloyd says, "the second specimen I have seen, a very interesting find."

P. dichrous Fr.—On stumps of *Juniperus virginiana*.

* Except the *Boletus*, the Polypores were determined by Dr. C. G. Lloyd and are preserved in the Herbarium of the Lloyd Museum and Library, Cincinnati, Ohio.

P. squamosus (Huds.) Fr.—On living trunk of *Salix nigra*, Gardiner's Island.

Polystictus cinnamomeus (Jacq.) Sacc.—Rich soil in oak woods at Greenport.

Poria medulæ-panus (Pers.) Fr.—On spruce timber in a cellar.

P. pinea Pk.—On old log of *Pinus Strobus*.

P. radula (Pers.) Fr.—On *Quercus velutina* and rotten wood of *Sassafras Sassafras*.

AGARICACEAE

Panus levis Berk.—On oak wood in a shed; determined by Dr. Lloyd, who says, "this is an American plant that is very rarely received by me. The spores of *Panus levis* are 4-6 x 10-12 μ and slightly arcuate."

Pleurotus striatulus Fr.—On old wood; determined by Dr. Lloyd.

GASTEROMYCETES

Catostoma circumscissum (B. & C.) Morg.—Sandy soil in open cedar woods; determined by Dr. Lloyd.

Lycoperdon umbrinum Pers.—Sandy soil in open woods; determined by Dr. Lloyd. (*Lycoperdon glabellum* Pk.)

Sphaerobolus stellatus Tode—On old wood of *Vitis bicolor*; determined by Dr. Fairman.

LICHENES*

Biatora rivulosa (Ach.) Fr.—On bark of oak at Greenport.

B. uliginosa (Schrad.) Fr.—In open places on light bare soil.

Cladonia macilenta styracella (Ach.) Wainio—On old rotten pine log in sandy woods.

C. ochrochlora ceratodes Fkl.—On sandy soil in open woods.

Cyrtidula rhoica Minks—On bark of sumac.

Lecanora (§ Ochrolechia) pallescens (L.) Schaer.—On bark of large oak trees in woods at Greenport.

Lobularia pulmonaria (L.) Hoffm.—On trunks of trees in woods at Greenport. (*Sticta pulmonaria* (L.) Ach.)

Peltigera polydactyla (Neck.) Hoffm.—About mossy roots of trees in moist woods at Greenport.

P. scutata (Dicks.) Leight.—Mossy banks in woods at Greenport; determined by Miss Mary F. Miller.

Physcia obscura virella (Ach.) Leight.—On bark of oak in woods at Greenport.

HEPATICAE†

Asterella tenella (L.) Bv.—On heavy soil along roadside in cedar woods.

Cephalozia fluitans (Nees) Spruce—Southold about base of trees in a sandy swamp; determined by Dr. A. W. Evans.

C. Francisci (Hook.) Dum.—On clean moist sand, at edge of a cranberry bog at the lake on Horton Point, Southold, forming beautiful green carpets 6 x 10 feet; determined by Dr. G. H. Conklin and Dr. Evans. Dr. Conklin says this species "has been found only a few times in North America. This the fourth or fifth

* Unless otherwise stated, the Lichens were determined by Mr. G. K. Merrill, Rockland, Maine.

† Unless otherwise stated, the Hepaticæ were determined by Dr. G. H. Conklin, Superior, Wisconsin: and are preserved in the Hepatic Herbarium of The Sullivan Moss Society.

time." Dr. Evans in his "Notes on North American Hepaticae. VI" in *Bryol.* 18: 83. Sept. 1915 says that the geographical distribution of *Cephalozia Francisci* "in North America is so incompletely known that the report of the following new stations seem justifiable." A station on Cape Breton Island, Nova Scotia: and "Southold and Orient Point, Long Island, New York, R. Latham," are reported. "The last two stations which represents a marked extension of the known range to the southward," having been found previously in Maine and New Hampshire," are of especial interest and indicate that the plant ought to be looked for in eastern Connecticut and Rhode Island." This rare hepatic has only been found at Horton Point, Southold: but has never been found at Orient Point, as stated above!

C. macrostachya Kaal.—Southold about base of bushes in a sandy swamp; determined by Dr. Evans.

C. media Lindb.—On old logs in moist woods at Greenport.

Fossombronia foveolata Lindb.—Sandy swamps, Horton Point; and dry soil in cedar woods, Orient, fruiting in November; determined by Dr. Evans and Dr. Conklin.

Lophocolea minor Nees—On a mossy rock in a swamp.

Notothylas orbicularis (Schw.) Sull.—Muddy bottom of a pasture pond at Orient.

Odontoschisma Sphagni (Dicks.) Dumort.—Edge of woodland swamp at Orient; determined by Miss Annie Lorenz.

Pallavicinia Lyellii (Hook.) S. F. Gray—About mossy base of trees in moist woods and swamps, Greenport and Southold.

Pellia Fabroniana Raddi—Edge of stream in woods at Greenport. Dr. Conklin says "this is a rare species."

Riccardia pinguis (L.) S. F. Gray—Among rushes on wet sandy shore of lake at Horton Point: and among grasses in brackish marsh at Orient; determined by Dr. Conklin and Dr. Evans.

MUSCI

Amblystegium Kochii B. & S.—On old leather and wood in a shady place; determined by Dr. A. J. Grout.

Fissidens minutulus Sull.—Small pieces of sandstone, under a shady bank, edge of lake at Horton Point; determined by Mr. G. B. Kaiser.

Fontinalis dalecarlica B. & S.—Trunks of bushes in wet places; determined by Mr. Kaiser.

Hypnum curvifolium Hedw.—All traces of this moss has disappeared where it was found in December 1909. This species should probably be referred to *Hypnum imponens* Hedw.

Plagiothecium Roeseanum (Hampe) B. & S.—Wet shady place; determined by Dr. Grout.

Pogonatum brevicaule (Brid.) Brv.—Wet stream bank at Greenport; determined by Mr. Kaiser.

Polytrichum commune uliginosum Hueb.—Dry soil at Southold; determined by Mr. Kaiser.

Sphagnum compactum DC.—Sandy bog at Southold; determined by Dr. A. L. Andrews.

S. subsecundum Nees—The form called *S. inundatum* Russ. in a sandy bog at Southold; determined by Dr. Andrews.

PTERIDOPHYTA

POLYPODIACEAE

Dryopteris hexagonoptera (Mx.) C. Chr.—Moist woods, Gardiner's Island.

LYCOPODIACEAE

Lycopodium adpressum (Chapm.) Lloyd & Underw.—Orient in a brackish meadow; the first club-moss found at Orient. No Lycopodiums have been found on Gardiner's Island.

ANGIOSPERMÆ

MONOCOTYLEDONES

ZANNICHELLIACEAE

Potamogeton diversifolius Raf.—In the lake on Horton Point.

Zannichellia palustris L.—Shallow brackish stream, Gardiner's Island.

GRAMINEAE

Agrostis alba L.—The var. *aristata* Gray, collected by Mr. Frank Dobbin in woods at Greenport; determined by Mrs. Agnes Chase.

Andropogon virginicus L.—Moist sandy soil, Southold; determined by Mrs. Chase.

Elymus halophilus Bicknell—Salt marshes. The very light glaucous green plants grow in tufts: and are never as tall as the other wild ryes.

E. striatus Willd.—Rocky woods, Gardiner's Island; determined by Mr. Dobbin.

Lolium multiflorum Lam.—Waste and cultivated grounds, rare at Orient; determined by Mrs. Chase.

Panicum flexile (Gattinger) Scribn.—Dry sandy soil, Southold; determined by Mrs. Chase.

P. Lindheimeri Nash—Dry ground, Mattituck; determined by Mrs. Chase.

P. virgatum L.—The var. *cubense* Griseb., collected by Mr. Dobbin at Orient; determined by Mrs. Chase.

Paspalum pubescens Muhl.—Dry pastures and cultivated fields; determined by Mrs. Chase.

Syntherisma sanguinalis (L.) Dulac—Common in cultivated fields and waste places; often known by the name of "Flat-grass."

CYPERACEAE

Carex debilis Mx.—Greenport, the host of *Puccinia Grossulariae*.

C. laxiflora Lam.—Woodlands.

Cyperus Grayii Torr.—Abundant on the sands at Horton Point; also in sandy woods at Mattituck. "Orient Point": in the State Herbarium are two specimens collected on Long Island many years ago. "New Jersey is usually given as the northern range of this species." N. Y. State Mus. Bull. 176: 44. 1915.

C. Houghtoni Torr.—The specimens, previously reported from Orient, are probably referable to *Cyperus Grayii* Torr.

ORCHIDACEAE

Blephariglottis psycodes (L.) Rydb.—Rich woods, Gardiner's Island; determined by Mr. Dobbin.

Gymnadeniopsis clavellata (Mx.) Rydb.—Moist woods, Gardiner's Island; determined by Mr. Dobbin.

Ibidium ochroleucum (Rydb.) House—Dry hillsides, East Marion. The leaves are often half an inch wide: and the flowers, cream-colored and very fragrant. This species has been combined with *Ibidium cernuum* (L.) House: but the East Marion plants and those found in the Flora of the Lake George region, New York, appear quite distinct.

Liparis liliifolia (L.) L. C. Rich.—Swampy wood at Orient, very rare; collected by Mr. Vinton Richard.

Pogonia ophioglossoides (L.) Ker—In a brackish meadow at Orient, rare.

DICOTYLEDONES

SALICACEAE

Salix caprea L.—The var. *pendula* Hort. “Roadsides, Orient Point.” N. Y. State Mus. Bull. 176: 44. 1915.

ULMACEAE

Celtis occidentalis L.—Mr. Dobbin says he saw, Aug. 15, 1915 on Gardiner's Island. trees with trunks two feet in diameter.

MORACEAE

Morus rubra L.—Two trees, edge of dry woods, near an old pathway, Gardiner's Island; probably introduced; determined by Mr. Dobbin.

URTICACEAE

Urtica urens L.—Rare in low waste ground, Gardiner's Island.

POLYGONACEAE

Fagopyrum Fagopyrum (L.) Karst.—Persisting in cultivated ground and waste places.

CHENOPodiaceae

Dondia linearis (Ell.) Heller—Salt marshes and beaches.

CORRIGIOLACEAE

Scleranthus annuus L.—Dry roadside, Greenport.

SAXIFRAGACEAE

Chrysosplenium americanum Schwein.—Along a muddy ditch in woods, Gardiner's Island; determined by Mr. Dobbin.

MALACEAE

Pyrus communis L.—Woods and hedges.

FABACEAE

Meibomia canescens (L.) Ktze.—Edge of dry woods, Gardiner's Island.

Melilotus officinalis (L.) Lam.—Rare in fields at Orient.

Vicia villosa Roth—Occasional in fields and waste places.

GERANIACEAE

Geranium carolinianum L.—Orient in a sandy pasture.

G. molle L.—Rare in a sandy pasture at Orient.

POLYGALACEAE

Polygala ambigua Nutt.—Dry pastures, Orient and Gardiner's Island.

ELATINACEAE

Elatine americana (Pursh) Arn.—Shallow water of lake at Horton Point; determined by Mr. Percy Wilson.

VACCINIACEAE

Vaccinium vicinum Bicknell—In woods about a spring, Gardiner's Island, fruiting specimens Aug. 15, 1915. These specimens have been compared with the type in the Herbarium of New York Botanical Garden.

ASCLEPIADACEAE

Asclepias purpurascens L.—Moist place in woods, Gardiner's Island.

BORAGINACEAE

Lappula virginiana (L.) Greene—Rich woods, Gardiner's Island; determined by Mr. Dobbin.

Myosotis laxa Lehm.—Rare on muddy shores, Gardiner's Island; determined by Mr. Dobbin.

LABIATAE

Teucrium littorale Bicknell—Wet woods, shores and salt marshes, Gardiner's Island and Orient.

SOLANACEAE

Datura Tatula L.—More common at Orient than the white-flowered species, *Datura Stramonium* L., with which *D. Tatula* has been combined; collected by Mr. Dobbin.

LENTIBULARIACEAE

Utricularia geminiscapa Benj.—Shallow water of lake at Horton Point; determined by Dr. J. H. Barnhart. (*Utricularia cleistogama* (Gray) Britton.)

RUBIACEAE

Diodia teres Walt.—Moist pasture at Orient.

AMBROSIAEAE

Iva frutescens L.—Salt marshes at Orient; determined by Mr. Dobbin.

COMPOSITAE

Gnaphalium purpureum L.—Rare in dry woods.

Helianthus decapetalus L.—Moist woods at Orient; leaves a little narrower than usual and in whorls of four below.

Ionactis linariifolia (L.) Greene—Sandy soil on Long Beach, Orient, rare.

Mikania scandens (L.) Willd.—Edge of wet woods, Gardiner's Island; determined in part by Mr. Dobbin.

Solidago speciosa Nutt.—Rare in dry woods at Orient. The specimen had entire leaves with ciliolate margins.

THE FLORA OF THE TOWN OF SOUTHOLD, LONG ISLAND AND GARDINER'S ISLAND

BY STEWART H. BURNHAM AND ROY A. LATHAM

SECOND SUPPLEMENTARY LIST*

The following local observers have assisted in this list, by collecting or reporting unusual species; therefore establishing many new records and also new stations for species already reported in the two preceding lists. Mrs. F. R. Mitchell of Southold is specially mentioned for kindness in allowing a study of her long and interesting list of plants collected by herself and the late Mr. Mitchell, mostly in the vicinity of Southold, a decade or more ago. Mrs. Frank D. Smith of Peconic, Miss Mabel R. Wiggins of East Marion and William C. Ferguson of Hempstead should be mentioned. The following botanists have visited and collected in the region: Mrs. Agnes Chase, Mr. Wm. T. Davis, Mr. Norman Taylor and others.

INSECT GALLS†

Asteromyia carbonifera Felt—On leaves of *Euthamia tenuifolia*.

Caryomyia tubicola O.S.—On leaves of *Hicoria glabra* at Cutchogue.

Cecidomyia verrucicola O.S.—On leaves of *Tilia americana* at Southold.

Dasyneura Lysimachiae Beutm.—On *Lysimachia quadrifolia* at Orient.

Disholcaspis mamma Walsh—On twigs of *Quercus velutina* at Greenport.

Eriophyes Cephalanthi Cook—Greenport on leaves of *Cephalanthus occidentalis*.

E. semen Walsh—Orient on leaves of *Salix*.

Hormomyia canadensis Felt—Cutchogue on leaves of *Amelanchier oblongifolia*.

Lasioptera clavula Beutm.—On twigs of *Cornus* at Cutchogue, Greenport and Southold.

[No. 6, Vol. 20, of **TORREYA**, comprising pp. 107–140, was issued 7 February 1921]

* The preliminary flora was published in **TORREYA** 14: 201–225. Nov. 1914, and 229–254. Dec. 1914. The First Supplementary List was published in **TORREYA** 17: 111–122, July 1917.

† The majority of these galls were named by Dr. E. P. Felt, state entomologist of the State of New York.

L. nodulosa Beutm.—Orient on stems of *Rubus*.

Livia maculipennis Fitch—On the inflorescence of *Juncus canadensis*.

Neolasioptera ramuscula Beutm.—On stems of *Doellingeria umbellata* at Orient.

Phylloxera Caryae semen Walsh—Orient on the under surface of the leaves of *Hicoria glabra*.

Rhabdophaga strobilooides Walsh—On the tips of branches of *Salix humilis* at Peconic.

Rhopalomyia hirtipes O.S.—On aerial stems of *Solidago juncea* at Cutchogue and Peconic.

EUPHYCEAE

Antithamnion americanum (Harv.) Farl.—In the Sound at Orient; determined by Dr. M. A. Howe.

Nitella intermedia Nordst.—Great Pond, Southold; determined by Dr. Howe who has examined specimens twice, and says, "this species or something close to it."

PHYCOMYCETES

Empusa americana Thaxt.—On blow-flies, *Calliphora vomitoria* at Orient; determined by Prof. John Dearness. Many thousands of these flies are killed by this fungus during cold, wet spells in the summer. They are usually found clustered on the softer parts of grape vines.

Rhysottheca Haldstedii (Farl.) Wils.—On leaves of *Helianthus* in woods at Orient; determined by Prof. Dearness.

ASCOMYCETES (EXCLUDING PYRENOMYCETES)

Cudoniella marcida (Müll.) Sacc.—On earth in rich woods at Cutchogue. September. Determined by Dr. C. G. Lloyd as *Leotia marcida* Pers.: Mycol. Notes 63: 964. May 1920.

Geoglossum Farlowi Cke.—On earth in rich woods at Greenport. October. Determined by Dr. Lloyd who says "it is a very rare plant with spores 3-septate, 80 mic. long in these." It is difficult to believe, however, that it is other than a spore variation of the more common *Geoglossum hirsutum* Pers.

Peziza odorata Pk.—On ashes in a cellar at Orient; determined by Dr. Charles E. Fairman.

Phialea scutula (Pers.) Gill.—On dead herbaceous stems at Orient; determined by Dr. Fairman.

Pseudopachidium Betulae Rehm.—On twigs and small branches of *Betula populifolia* at Orient. Spring. Determined by Dr. Fairman, who says the find is noteworthy; and confirmed by Dr. E. J. Durand, who reports that it agrees with Rehm's Ascomyceten No. 866 in his herbarium.

Tapesia sanguinea (Pers.) Fckl.—On wood of *Juniperus virginiana* at Orient; determined by Dr. Fairman.

ASCOMYCETES (PYRENOMYCETES)

Anthostoma gastrinum (Fr.) Sacc.—On dead branches of *Amelanchier canadensis* at Orient; determined by Prof. Dearness.

Botryosphaeria fuliginosa (M. & N.) E. & E.—Orient on stems of *Smilax rotundifolia*; determined by Prof. Dearness. No. 2107.

Camarosporum Robiniae (West.) Sacc.—Orient on *Robinia Pseudo-acacia*, associated with *Cucurbitaria elongata* (Fr.) Grev. No. 702. N. Y. State Mus. Bull. 197: 25. 1918.

Cryptospora aculeans (Schw.) E. & E.—On stems and twigs of *Rhus copallina* and *Toxicodendron radicans* at Orient; determined by Prof. Dearness.

Diaporthe (Chorostate) cercophora (Ell.) Sacc.—On dead twigs and branches of *Celtis occidentalis* at Orient; determined by Prof. Dearness.

Diaporthe (Euporthe) cryptica Nitschke—Orient on stems of *Lonicera japonica*; determined by Prof. Dearness.

Diaporthe (Euporthe) euspina (C. & E.) Sacc.—Base of stems of *Chenopodium ambrosioides* at Orient; determined by Prof. Dearness.

Diaporthe (Chorostate) oxyspora (Pk.) Sacc.—On twigs and branches of *Ilex verticillata* at Orient. N. Y. State Mus. Bull. 197: 38. 1918. (*Diaporthe ocularia* (C. & E.) Sacc.)

Diatrype Baccharidis Earle—Orient on stems and branches of *Baccharis halimifolia*; determined by Prof. Dearness. No. 4033.

D. disciformis (Hoffm.) Fr.—On branches of *Myrica caroliniensis* at Orient; determined by Prof. Dearness.

Diatrypella verrucaeformis (Ehrh.) Nitschke—On trunks of *Myrica caroliniensis* at Orient; determined by Dr. Fairman.

Didymosphaeria Celtidis E. & E.—On twigs of *Celtis occidentalis* at Orient; determined by Prof. Dearness.

Dothidea collecta (Schw.) E. & E.—Orient on twigs of *Iva frutescens*; determined by Prof. Dearness.

Erysiphe Cichoracearum DC.—On leaves and stems of *Plantago Rugelii* at Orient; determined by Dr. Fairman.

Eutypa leucostroma (Mont.) Sacc.—On stems of *Smilax rotundifolia* at Orient; determined by Dr. Fairman.

E. sepulta (B. & C.) E. & E.—Orient on stems of *Smilax rotundifolia*; determined by Prof. Dearness.

Eutypella cerviculata (Fr.) Sacc.—On branches of *Celtis occidentalis* at Orient; determined by Prof. Dearness.

E. Gleditschiae Berl.—On dead twigs of *Gleditschia triacanthos* at Orient. No. 724. N. Y. State Mus. Bull. 197: 29. 1918.

E. scoparia (Schw.) E. & E.—Orient on twigs of *Robinia Pseudo-acacia*; determined by Prof. Dearness. No. 1041.

E. venusta (Ell.) Sacc.—Orient on twigs of *Robinia Pseudo-acacia*; determined by Prof. Dearness. No. 1198.

Gibberella fulicaris (Fr.) Sacc.—On stalks of *Zea Mays* at Orient; determined by Dr. Fairman.

Gloniella ovata (Cke.) Sacc.—On decorticated and weathered wood of *Castanea dentata* at Orient. "The type of this species (collected by Ravenel in Carolina) is said to be on oak." No. 824. N. Y. State Mus. Bull. 205-206: 51. 1919.

Gloniopsis Cookeana (Ger.) Sacc.—Orient on dead wood of *Quercus alba*,

dead branches of *Myrica caroliniensis*, dead decorticated branches of *Rhus glabra* and *Xolisma ligustrina*. N. Y. State Mus. Bull. 197: 39. 1918.

Guignardia Bidwellii (Ellis) Viala & Ravaz—On fruit of cultivated grapes; determined by Prof. Dearnness and Dr. Fairman. It is associated with *Phoma uvicola* B. & C. which Rostrup states is a stage of *Guignardia Bidwellii*.

Hypocrea rufa (Pers.) Fr.—A Corticum-like plant growing on oak; determined by Prof. Dearnness. No. 3387.

Hypoxyylon multiforme Fr.?—On wood of *Quercus velutina* at Orient; determined by Dr. Lloyd (printed): Letter 67: 7. July 1918.

H. rubiginosum (Pers.) Fr.—Orient on dead branches of *Rhus copallina*; determined by Prof. Dearnness.

Hysterographium Lesquerelii (Duby) Sacc.—On dead branches of *Gleditschia triacanthos* at Orient. N. Y. State Mus. Bull. 197: 30. 1918.

H. Vaccinii (Schw.) Fairman—This combination was made in the First Supplementary List in Torreya 17: 113. July 1917: but was wrongly spelled *Hysterographium Vaccinii*.

Massaria conspurcata (Wallr.) Sacc.—On twigs of *Padus virginiana* (*Prunus serotina* Ehrh.) at Orient. Determined by Dr. Fairman, who says, "spores 60–65 \times 13.5–14 μ ." According to Ellis & Everhart, your specimen has spores agreeing more with those distributed by Dr. Rehm (in his Ascomyceten) than what Ellis noted in this country. That is, they are about the same width as foreign specimens and wider than those usually found here.

Massarinula Brassicae Dearn. & House—On dead stems of Brussels Sprouts, *Brassica oleracea gemmifera*, at Orient. September 1915. Type in the herbarium of the N. Y. State Museum. Described in N. Y. State Mus. Bull. 197: 31. 1918.

Microsphaera Alni (Wallr.) Salmon—The var. *Vaccinii* (Schw.) Salmon on leaves of *Vaccinium corymbosum* at Orient; determined by Prof. Dearnness.

Phyllachora Graminis (Pers.) Fckl.—The var. *Panici* (Schw.) Spear on leaves of *Panicum cladestinum*, common throughout the town; determined by Prof. Dearnness.

P. Pteridis (Reb.) Fckl.—On fronds of *Pteridium aquilinum* at Mattituck; determined by Prof. Dearnness.

Pyrenophora calvescens (Fr.) Sacc.—On *Chenopodium ambrosioides*; determined by Prof. Dearnness.

Rosellinia protuberans Karst.—Orient on wood of *Baccharis halimifolia*; determined by Dr. Fairman.

R. pulveracea (Ehrh.) Fckl.—On twigs of *Celtis occidentalis*; determined by Prof. Dearnness.

Sphaerella pardalota C. & E.—Orient on old leaves of *Myrica caroliniensis*; determined by Dr. Fairman.

Trematosphaeria nuclearia (DeNot.) Sacc.—On decaying nuts of *Hicoria glabra* at Orient; determined by Prof. Dearnness. No. 1202.

Valsa Liquidambaris (Schw.) Cke.—On dead stems of *Hamamelis virginiana* at Orient. "A new host species. The asci are 30–33 \times 8 μ , the spores eight in an ascus, 8–9 \times 2 μ , hyaline, allantoid." N. Y. State Mus. Bull. 197: 45. 1918.

V. Pini (A. & S.) Fr.—On dead bark and twigs of *Pinus Strobus* at Greenport; determined by Prof. Dearness. The fallen trunk of one tree that had been cut about a year was completely covered with this species, abundantly fruiting.

V. subclypeata C. & P.—Orient on dead branches of sassafras; determined by Prof. Dearness.

Xylaria corniformis Fr.—On buried roots of *Quercus velutina* at Orient; determined by Dr. Lloyd (printed): Letter 66: 4. Oct. 1917.

HYPOMYCETES

Cercospora Acalyphae Pk.—Orient on leaves of *Acalypha gracilens*; determined by Prof. Dearness.

C. circumscissa Sacc.—Common at Orient on leaves of *Padus virginiana* (*Prunus serotina*); determined by Prof. Dearness.

C. copallina Cke.—Cutchogue on leaves of *Rhus copallina*; determined by Prof. Dearness who says, "this is likely only a synonym of *Cercospora rhoina* C. & E."

C. rhoina C. & E.—On leaves of *Rhus copallina* at Cutchogue; determined by Prof. Dearness.

Cladosporium herbarum (Pers.) Link—Orient on leaves of *Hemerocallis fulva*; determined by Prof. Dearness.

Exosporium Tiliae Link—Orient on dead branches and trunks of *Tilia vulgaris*; determined by Prof. Dearness.

Fusarium Celtidis Ell. & Tracy—Orient on twigs of *Celtis occidentalis*; determined by Prof. Dearness.

MELANCONIALES

Cylindrosporium Iridis E. & H.—On living leaves of *Iris versicolor* at Orient. N. Y. State Mus. Bull. 197: 27. 1918.

Gloeosporium Opuntiae E. & E.—On leaves of *Opuntia*; determined by Dr. Fairman. Large patches of the Eastern Prickly Pear have been killed by this fungus at Orient.

Marsonia Potentillae (Desm.) Fisch.—Greenport on leaves of *Potentilla canadensis*; determined by Dr. House.

Melanconium betulinum Schm. & Kze.—On twigs of *Betula populifolia* at Greenport; determined by Dr. Fairman.

Pestalozzia uncinata Ell. & Kell.—On leaves of *Quercus velutina*; determined by Dr. House.

Stagonospora Chenopodii Pk.—(*Phleospora Chenopodii* E. & K.) On leaves of *Atriplex hastata*, common at Orient; determined by Prof. Dearness.

Steganosporium acerinum Pk.—Orient on dead branches of *Acer Pseudoplatanus*. Determined by Prof. Dearness who says, "may be a synonym of *Steganosporium piriforme* (Hoffm.) Cda.: Mr. Ellis used to call the larger spore form *S. cellulosum* Cda. and the smaller spore form *S. piriforme*. The spores are 36 \times 18 μ ."

SPHAEROPSIDEAE

Coniothyrium concentricum (Desm.) Sacc.—On leaves of cultivated *Yucca* at Orient; determined by Prof. Dearness.

Leptostromella Chenopodii Dearn. & House—Orient on dead stems of *Chenopodium album*. Described in N. Y. State Mus. Bull. 205-206: 53-54. 1919.

Macrophoma celtidicola Dearn. & House—Orient on twigs of *Celtis occidentalis*; determined by Prof. Dearness.

Phlyctaena arcuata Berk.—Orient on dead stems of *Helianthus annuus*. No. 726. “Spores filiform arcuate to falcate, 25 μ long.” N. Y. State Mus. Bull. 205-206: 55. 1919.

Phoma Celtidis Cke.—On twigs of *Celtis occidentalis*; determined by Prof. Dearness. No. 3388.

Phyllosticta Chenopodii Sacc.—On leaves of *Chenopodium album* at Orient; determined by Dr. Fairman.

P. Kalmicola Schw.—Greenport on leaves of *Kalmia latifolia*; determined by Prof. Dearness.

Phyllosticta limitata Pk.—On leaves of apple, *Malus*; determined by Prof. Dearness. Very abundant throughout the town during the summer of 1919: and practically defoliating some trees.

P. minima (B. & C.) E. & E.—Laurel on leaves of *Acer rubrum*; determined by Dr. Fairman.

P. Sassafras Cke.—On leaves of *Sassafras*, common throughout the township. Determined by Prof. Dearness who says, “Ellis and Everhart in their North American Phyllostictas say the specimens available for examination are all sterile and that the species must be put in the doubtful class. The spots on some of these leaves have pycnidia with the small spores of the description; but most of the spots are sterile.”

Septoria brunneola (Fr.) Niessl.—Cutchogue on leaves of *Vagnera racemosa*; determined by Prof. Dearness.

S. Macrosporia Dearn.—On leaves of *Chrysanthemum Leucanthemum* at Orient. Prof. Dearness says, “externally it is exactly like it but the spores fall short in average size.”

S. mollisia Dearn & House—Mattituck on leaves of *Antennaria plantaginifolia*; determined by Prof. Dearness, who says this may be the same as Fairman’s *Septoria lanaria*.

S. Polygonorum Desm.—Orient on leaves of *Persicaria Persicaria*; determined by Prof. Dearness.

S. Stellariae Rob. & Desm.—On leaves of *Alsine media* at Orient. Determined by Prof. Dearness who says, “the same as Fungi Columb. No. 775, which Mr. Ellis named as the above. It is not very distinct from *Septoria Silenicola* Ell. & Mart.”

S. Viola West.—Greenport on leaves of *Viola cucullata*; determined by Prof. Dearness.

Sphaeronema Robiniae B. & C.—On twigs and branches of *Tilia americana* at Orient; determined by Prof. Dearness.

Sphaeropsis Celtidis E. & E.—On twigs of *Celtis occidentalis* at Orient. No. 3561. Determined by Dr. Fairman who says, "Cfr. Am. Nat. 428. 1897 and Saccardo Syl. 14: 921. I have never had this before: it was originally named from a specimen collected by Bartholomew on *Celtis occidentalis* in Kansas." *S. Syringae* C. & E.—Orient on twigs of *Syringa vulgaris*; determined by Dr. Fairman.

Vermicularia herbarum West.—On old stems of *Geranium maculatum* at Orient; determined by Prof. Dearness.

USTILIGINACEAE

Sorosporium Syntherismae (Pk.) Farl.—Orient on *Panicum dichotomiflorum*; determined by Dr. G. P. Clinton.

UREDINACEAE*

Peridermium Peckii Thüm.—Common. On *Azalea viscosa* at Greenport, Peconic and Southold. On *Gaylussacia baccata* at Cutchogue. (*Pucciniastrum Myrtilli* (Schum.) Arth.)

P. pyriforme Pk.—Found sparingly during August on leaves of *Comandra umbellata* at Mattituck. (*Cronartium Comandrae* Pk.)

Pucciniastrum Agrimoniae (Schw.) Tranz.—Orient on leaves of *Agrimonia gryposepala*.

P. Pyrolae (Pers.) Diet.—Southold on *Chimaphila maculata*; but one collection found.

PUCCINIACEAE

Puccinia Anemones-Virginianae Schw.—On leaves of *Anemone Virginiana* at Indian Neck, Peconic. August.

P. Circaeae Pers.—Orient on leaves of *Circaeae Lutetiana*.

P. Ellisiana Thüm.—Orient on *Schizachyrium scoparium*. November.

P. investita Schw.—On *Gnaphalium obtusifolium* at Cutchogue, Orient and Peconic. August.

P. minutissima Arth.—Mattituck on stems and leaves of *Decodon verticillatus*. August. Very common in one swamp and forming large swellings on stems and the midveins of leaves. (*Aecidium Nesaeae* Ger.)

P. patruelis Arth.—On leaves of *Lactuca canadensis* at Orient. June. Dr. Arthur says, "lately has been called *Puccinia hieraciata* (Schw.) Jackson. This is rather a rare rust in New York and in fact throughout the Atlantic states: but is very common in the interior. It has telia on various species of *Carex*."

Uromyces Hyperici-frondosi (Schw.) Arth.—Gardiner's Island on leaves of *Hypericum muticum*; determined by Burnham.

U. Lespedezae-procumbentis (Schw.) Curt.—On *Lespedeza capitata* at Cutchogue, Peconic and Southold. On *Lespedeza virginica* at Cutchogue. Locally common at these stations. (*Nigredo Lespedezae-procumbentis* (Schw.) Arth.)

* Unless otherwise stated the Rusts were determined by Dr. J. C. Arthur.

U. Polemonii (Pk.) Barth.—N. Y. State Mus. Bull. 197: 13. 1918, as a contribution; probably on *Spartina stricta alterniflora*.

TREMELLACEAE

Dacryomyces deliquescens (Bull.) Duby—On old wood of *Juniperus virginiana*; determined by Dr. Lloyd: Mycol. Notes 63: 964. May 1920.

Exidia recisa Fr. On branches of *Quercus velutina* at Orient; determined by Dr. Lloyd: Mycol. Notes 63: 964. May 1920.

Naematelia nucleata (Schw.) Fr.—On old bark of *Quercus velutina*; determined by Dr. Lloyd (printed): Letter 66: 4. Oct. 1917.

THELEPHORACEAE

Aleurodiscus nivosus (B. & C.) v. Höhn & Litsch.—On bark of *Juniperus virginiana* at Orient. No. 189. (In Mo. Bót. Gard. Herb., 44228) (*Stereum acerinum* Pers., var. *nivosum* B. & C.) Ann. Mo. Bot. Gard. 5: 195. 1918.

Craterellus cornucopioides (L.) Pers.—“Note 862. The common *Craterellus cornucopioides* is usually so regular and cup shaped that we were somewhat surprised to receive a collection lobed and almost divided at the base, from Mr. Latham. We supposed that it had been torn accidentally but Mr. Latham stated that it grew naturally in this way and he found a large colony of this form.” Dr. Lloyd’s Mycol. Notes 63: 965. May 1920.

Cyphella muscigena (Pers.) Fr.—*Thuidium paludosum* has been found “only in one locality, a blackish meadow in Orient. It is common there, but rarely fruiting. It is a frequent host of *Cyphella* in this plot. There are several other species of musci associated with the *Thuidium*. It is interesting that the fungus should go commonly to this single species and not at all to the others.” Bryol. 23: 7. Jan. 1920. Determined by Dr. Fairman.

Hymenochaete agglutinans Ellis—On *Sassafras*; determined by Prof. Dearnness. *H. corrugata* (Fr.) Lev.—Orient. No. 154. (In Mo. Bot. Gard. Herb., 44229.) Determined by Dr. E. A. Burt. Ann. Mo. Bot. Gard. 5: 361. 1918.

Thelephora multipartita Schw.—On earth in woods at Orient; determined by Dr. Lloyd: Mycol. Notes 63: 965. May 1920.

Thelephora spiculosa Fr.—On earth in dry woods at Cutchogue; determined by Dr. Lloyd who says “rare.”

Tremellob dendron merismatoides (Schw.) Burt—On heavy soil in woods at Orient; determined by Dr. Lloyd.

HYDNACEAE

Hydnnum caryophylleum B. & C.—On old wood of *Hicoria glabra* at Orient; determined by Prof. Dearnness.

H. vellereum Pk.—In dry woods at Cutchogue. Dr. Lloyd says, “quite fragrant when received”: Mycol. Notes 63: 964. May 1920, as *Hydnnum amicum* Quel.

H. zonatum of American Mycology—In dry woods on earth at Cutchogue. Determined by Dr. Lloyd: Mycol. Notes 63: 964. May 1920, as *Hydnnum scrobiculatum* Fr.

Phlebia merismoides Fr.—Orient on *Prunus Avium*; determined by Dr. Lloyd (printed): Letter 69: 7. April 1919.

Radulum pallidum B. & C.—On underside of a decayed log of *Pinus Strobus* in a swamp at Greenport; determined by Dr. Lloyd (printed): Letter 69: 7. April 1919.

POLYPORACEAE

Daedalea ochracea Lloyd—On oaks at Cutchogue; determined by Dr. Lloyd: Mycol. Notes 63: 964. May 1920. Under Note No. 137, Dr. Lloyd says, "I would designate the light-colored forms of *Daedalea unicolor* . . . which correspond to *Polystictus ochraceus* as forms of *Polystictus hirsutus*."

Merulius bellus B. & C.—Orient, "comm. by N. Y. State Herb., P66 (in Mo. Bot. Gard. Herb., 43604)." Ann. Mo. Bot. Gard. 4: 332. Nov. 1917.

Merulius brassicaefolius Schw.—On earth in a cellar at Orient; determined by Dr. Lloyd.

Polyporus brumalis (Pers.) Fr.—Greenport on *Vaccinium*; Orient on wild cherry; and Southold on *Sambucus canadensis*.

P. (Ganoderma) Curtisii Berk.—On trunks of living apple tree. Determined by Dr. Lloyd who says, "this is a southern unvarnished form of *Polyporus lucidus*, it is quite common in the south, but rarely found as far north as with you" (printed): Letter 67: 7. July 1918. Previously reported as *Ganoderma pseudoboletus* (Jacq.) Murrill.

P. pocula (Schw.) B. & C.—Orient on living bark of *Quercus velutina* at Orient. Found growing in clusters in April. Determined by Dr. Lloyd who says, "a unique little species": Mycol. Notes 63. 965. May 1920.

P. stipticus (Pers.) Fr.—On wood of *Quercus velutina* at Orient; determined by Dr. Lloyd (printed): Letter 66: 4. Oct. 1917.

P. trabeus Rostk.—On wood of *Quercus velutina* at Orient; determined by Dr. Lloyd (printed): Letter 67: 7. July 1918.

Polystictus dependens B. & C.—On the underside of a log of *Pinus rigida* at Cutchogue. September. No. 2080. A colony of about a dozen plants ranging from $\frac{1}{4}$ to $\frac{3}{4}$ of an inch in diameter. "Note 861. A rare species (Cfr. Stip. Polyporoids, p. 165) only known from a few stations in the south. This is the only collection in any way northern. Otherwise it is only known from one collection from Japan": Dr. Lloyd's Mycol. Notes 63: 965. May 1920.

Polystictus hirsutus (Wulf.) Fr.—The form *Polystictus hirsutulus* Schw. on *Quercus velutina* at Orient; determined by Dr. Lloyd (printed): Letter 69: 7. April 1919.

Poria omoema Berk.—On limbs of *Betula populifolia* at Orient; determined by Prof. Dearness who says a similar plant was named this species for him by Mr. Ellis. The type of this species was collected on pine in South Carolina by Mr. Ravenel. (= *Poria subacida* (Pk.) Sacc.)

AGARICACEAE

Crepidotus appplanatus (Pers.) Fr.—Orient on trunks of *Quercus velutina*; determined by Dr. Lloyd (printed): Letter 67: 7. July 1918.

Lenzites albida Fr.—On trunk of *Acer rubrum* at Greenport; determined by Dr. Lloyd who says, "the old, bleached white, wintered, lenzitoid form of *Daedalea confragosa*."

L. corrugata Klotsch.—Orient on oaks and *Sassafras*; determined by Dr. Lloyd (printed): Letter 69: 7. April 1919.

Panus strigosus B. & C.—Formerly reported from Orient as *Panus levis* Berk. The Orient plant is figured in Dr. Lloyd's Mycol. Notes 52: 746, fig. 1120. Dec. 1917.

Pleurotus niger Schw.—On terminal branches of *Rhus copallina* at Orient. Plants $\frac{1}{2}$ of an inch in diameter and slaty black. Dr. Lloyd says it is rare (printed): Letter 69: 7. April 1919.

P. sapidus Klachb.—On stumps of *Hicoria glabra* at Orient; determined by Dr. Lloyd (printed): Letter 69: 7. April 1919, and Mycol. Notes 63: 965. May 1920.

GASTEROMYCETES

Calvatia liliicina Berk.—On earth in rich woods at Orient; determined by Dr. Lloyd: Mycol. Notes 63: 965. May 1920.

Dictyophora duplicata (Bosc) Ed. Fisch.—On earth in moist woods at Cutchogue, Orient and Southold; determined by Dr. Lloyd as *Phallus duplicatus*: Mycol. Notes 63: 964. May 1920.

Lycoperdon gemmatum Batsch—On pure sand at Orient; determined by Dr. Lloyd.

Scleroderma Cepa Pers.—On pure sand in shade of pines and open ground at Southold; determined by Dr. Lloyd: Mycol. Notes 63: 964. May 1920.

MUSCI

Amblystegium varium (Hedw.) Lindb.—Orient at the base of a hickory tree about a moist cavity; determined by Mr. G. B. Kaiser.

Fontinalis gigantea Sulliv.—Swamp woods in water at Mattituck; determined by Dr. A. J. Grout. No. 1736.

Mnium cinctidioides Hüben.—In a swamp at Mattituck. No. 1843. Determined by Dr. Grout who says, "a depauperate form . . . the first to be reported from Long Island so far as I know, although it apparently is frequent along the west bank of the Hudson river."

POLYPODIACEAE

Adiantum pedatum L.—Southold, localized in moist woods south of Great Pond. The reference to this species in the first part of this Flora was an error: the above record is the only known station in the town. It was first discovered many years ago by Miss Mary H. Huntting and reported by Mrs. Frank D. Smith.

Polypodium vulgare L.—Sandy soil at Orient. No. 2331.

Polystichum acrostichoides (Mx.) Schott—Rare in woods south of Great Pond, Southold, Sept. 10, 1919. No. 4088.

LYCOPODIACEAE

Lycopodium adpressum (Chapm.) Lloyd & Underw.—Southold in a sandy bog.
No. 3455.

L. obscurum L.—Moist woods at Orient and Southold.

(*To be continued*)

THE FLORA OF THE TOWN OF SOUTHOLD, LONG ISLAND AND GARDINER'S ISLAND

BY STEWARD H. BURNHAM AND ROY A. LATHAM

(Continued from January–February TORREYA)

SPERMATOPHYTA

Picea rubens Sarg.—On Gid's Island, July 24, 1920 (Dr. C. S. Gager, N. Taylor & R. Latham). This island does not cover over three acres and is entirely surrounded by salt marshes. Two of the four trees are dead and the other two more than half dead: but there are four little seedlings ten to twenty inches high. Mr. Taylor remarks that these are evidently the last remains of what was once a spruce forest covering the whole island and that they are putting up a losing fight.

Pinus Strobus L.—A colony of nearly 300 trees in a swamp at Greenport; some of the trees actually growing where their roots are submerged a portion of the year. November 1918. Mr. Price, an elderly gentleman, who owns the swamp, says his father told him that they were a true native here. Some of the trees are probably 100 years old. There are eleven trees in dry woods at Southold which may be native. During August 1920 several hundred trees were seen in dry wood-lands at Bay View.

Sparganium androcladon (Engelm.) Morong—Wet place, Gardiner's Island. No. 3433. Sept. 20, 1920.

Potamogeton diversifolius Raf.—In a pond on Gardiner's Island. No. 3427.

**Agrostis altissima* (Walt.) Tuck.—Low marshy ground, rare at Mattituck.

A. perennans (Walt.) Tuck.—Dry soil throughout the town.

Aristida tuberculosa Nutt.—Rare along the railroad track in ashes at Laurel in the western part of the town. It is abundant in sandy soil a few miles further west but outside the town of Southold.

Calamagrostis cinnoides (Muhl.) Scribn.—Not common in low open ground at Mattituck.

Festuca Myuros L.—Wet sandy soil at Mattituck.

F. rubra L.—Orient in rather dry open woods near a salt marsh.

Misanthus sinensis Anderss.—Occasionally found in waste places and old yards.

Panicularia obtusa (Muhl.) Ktze.—Mattituck in a swamp.

Panicum meridionale Ashe—In dry woods at Cutchogue; determined as *Panicum albemarlense* Ashe.

P. tennesseense Ashe—Southold in sandy soil.

* The grasses were named by Mrs. Agnes Chase of the U. S. Department of Agriculture.

Carex atlantica Bailey.—Wet woods at Greenport and Orient; determined by Mr. G. P. Van Eseltine. No. 2285.

C. festucacea Schkr.—Wet open place in woods at Greenport (No. 3518) and at Southold (No. 3530).

Carex laevigata (Kük.) Mackenzie—Greenport in wet woods; determined by Mr. Van Eseltine. No. 2288.

C. lanuginosa Mx.—Greenport in a swamp and Orient in wet sandy woods; determined by Mr. Van Eseltine. No. 2339.

C. laxiculmis Schwein.—Frequent in dry open woods at Southold. No. 3524.

C. Swanii (Fernald) Mackenzie—Orient. No. 1101.

Cyperus dentatus Torr.—Wet sandy shores at Laurel. No. 1278 and 3447.

Eleocharis acicularis (L.) R. & S.—Salt marsh, Gardiner's Island (No. 3432) and sandy shore of a pond at Laurel (No. 3469).

Eriophorum virginicum L.—Laurel. No. 1287. Aug. 4, 1918.

Rynchospora alba (L.) Vahl—Laurel. No. 1291.

Spirodela polyrhiza (L.) Schleid.—East Marion (No. 3533) and Greenport. Locally common on woodland pools and ponds: at Greenport abundantly associated with *Lemna minor* L.

Juncus aristulatus Mx.—Growing in large clumps in a brackish marsh at Orient. Rare. May 30, 1917. No. 1087.

J. tenuis Willd.—Dry hills, Gardiner's Island. July 14, 1918. No. 1260.

Aletis farinosa L.—Laurel. Sept. 10, 1917. No. 1077.

Lilium philadelphicum L.—Open ground between Southold and Great Pond at Peconic. A colony of about 50 plants.

Gymnadeniopsis clavellata (Mx.) Rydb.—Boggy woods at Mattituck. Aug. 28, 1920. No. 3460.

Ibidium gracile (Bigel.) House—Plants having a single stout root were found in dry open ground at Southold. Aug. 20, 1920. No. 3434.

Hicoria ovata (Mill.) Britton—Low woods, Gardiner's Island. No. 3422. Sept. 20, 1920.

Myrica Gale L.—Laurel. Aug. 4, 1918. No. 1288.

Populus heterophylla L.—Greenport in swampy woods. July 25, 1920. The first time Mr. Taylor has seen it wild on Long Island.

Salix Bebbiana Sarg.—Greenport in dry open places. Plants commonly two feet high or less were found on sandy dunes at Southold.

S. cordata Muhl.—In a swamp at Mattituck. June 18, 1920. No. 3521. The leaves little narrower than usual.

S. discolor Muhl.—The var. *eriocephala* (Mx.) Anders. In open places at Greenport (Wm. C. Ferguson); determined by Dr. P. A. Rydberg.

Quercus ilicifolia Wang.—Rare near Laurel in light soil. No. 1268. Aug. 4, 1918. A single plant at Cutchogue; which is the easternmost record for it. The scrub oak becomes abundant about eight miles west of the Southold town limits.

Q. prinoides Willd.—Southold. Sept. 10, 1919. Rare in dry woods at Mattituck and Peconic.

Ulmus fulva Mx.—Wet woods at Greenport. July 20, 1920. No. 3459. Very rare in low woods; several trees in a bunch, which came from the stump of a large tree, cut many years ago.

Morus rubra L.—Was listed previously as probably introduced; but now found to be a native on Gardiner's Island.

Boehmeria Drummondiana Weddell—Laurel. Sept. 10, 1917. No. 1280.

Persicaria opelousiana (Riddell) Small—Swampy woods at Greenport. Aug. 28, 1920. No. 3386.

P. orientalis (L.) Spach.—Occasional in waste grounds and cultivated fields at Greenport and Orient.

Polygonum atlanticum (Robins.) Bickn.—Large bushy plants on sea beaches at Orient. Aug. 20, 1920. No. 3396.

Rumex mexicanus Meisn.—Orient. June 1916. Specimens previously reported as *Rumex pallidus* Bigel. should probably be referred here.

Acnida cannabina L.—Salt marshes at Laurel. Sept. 14, 1918. No. 1313. Specimens previously reported as *Acnida tuberculata* Moq. should probably be referred here.

Chenopodium Botrys L.—Southold (Mrs. F. R. Mitchell); determined by Mr. Taylor.

C. rubrum L.—Beach at Southold (Mrs. Mitchell); determined by Mr. Taylor.

Allionia nyctaginea Mx.—The subspecies *Allionia nyctaginea ovata* (Pursh) Morong. Moist waste ground at Laurel. Sept. 14, 1918. No. 1318.

Cerastium arvense L.—Fields at Southold (Mrs. Mitchell).

Silene stellata (L.) Ait.—Moist woods at Southold. Oct. 19, 1919. No. 4071.

Magnolia tripetala L.—A single tree twenty feet high with trunk diameter of five inches, at the edge of wet woods at Southold. The origin is uncertain, but introduced. Reported to Mr. Latham by Mrs. Mitchell. Oct. 16, 1919. No. 2148.

Cardamine hirsuta L.—Old lawn at Southold (Mrs. Mitchell).

Draba caroliniana Walt.—Sandy soil at western end of Long Beach at Orient. Rare. 23 May—early June, 1920.

Sarracenia purpurea L.—A single plant from a bog near Mattituck.

Agrimonia Bicknellii (Kearney) Rydb.—Rare in dry woods at Southold (Ferguson & Latham); determined by Dr. Rydberg.

A. rostellata Wallr.—Uncommon in dry woodlands at Southold. Oct. 10, 1919. No. 2120.

Potentilla recta L.—Dry roadsides at East Marion. Rare. June 20, 1920. No. 3531.

Amelanchier oblongifolia (T. & G.) Roem.—Not uncommon in dry woods at Cutchogue; determined by Dr. K. M. Wiegand. No. 3407.

Crataegus Arnoldiana Sarg.—Gardiner's Island, frequent at margins of woods in dry or wet soil; determined by Mr. W. W. Eggleston. A thick foliaged, beautiful, round-topped tree about twenty feet high.

Crataegus intricata Lange.—Gardiner's Island; determined by Mr. W. W. Eggleston.

Crataegus intricata Lange.—Gardiner's Island; determined by Mr. W. W. Eggleston.

Chamaecrista nictitans (L.) Moench.—Bay View and Southold, locally common. Sept. 1920. No. 3403.

Crotalaria sagittalis L.—Common on a dry sandy ridge at Southold. Aug. 28, 1920. No. 3385.

Lathyrus latifolius L.—A rare escape in dry woods in the vicinity of an old house-site at Cutchogue. Aug. 21, 1920. No. 3399.

Meibomia obtusa (Muhl.) Vahl—Dry hillside, locally common at Southold. Aug. 29, 1920. No. 3395.

M. rigida (L.) Ktze.—Mattituck. Aug. 9, 1918. No. 1284.

Polygala Nuttallii T. & G.—Mattituck. Aug. 9, 1918. No. 1267.

Tithymelus Helioscopia (L.) Hill—Rare in a field at Peconic (Mrs. Smith). Dec. 10, 1920.

T. Ipecacuanhae (L.) Small—Sandy soil at Laurel. Aug. 4, 1918.

Staphylea trifolia L.—Rocky woods, Southold; determined by Mr. Taylor. Aug. 1, 1920. No. 3548.

Hudsonia ericoides L.—Common in one locality at Bay View. Aug. 21, 1920. No. 3400.

Rotala ramosior (L.) Koehne—A small colony in wet sand north of Great Pond, Southold. Oct. 19, 1919. No. 2126.

Myriophyllum humile (Raf.) Morong—Gardiner's Island in a pond. Sept. 20, 1920. No. 3426.

Cicuta bulbifera L.—Mattituck. Aug. 9, 1918. No. 1270.

Cornus Amomum Mill.—Uncommon in rich woods at East Marion (Miss Mabel R. Wiggins); verified by Mr. Taylor.

Chamaedaphne calyculata (L.) Moench—Laurel. Aug. 4, 1918. No. 1269.

Eubotrys racemosa (L.) Nutt.—Wet woods at Southold. Oct. 19, 1919. No. 4068.

Gaulthera procumbens L.—Mattituck.

Neopieris mariana (L.) Britton—Low place in woods at Southold. Sept. 14, 1919. No. 2263. Cutchogue in rich woods. Rare on Fleets Neck, Cutchogue but frequent on Nassau Point.

Gaylussacia frondosa (L.) T. & G.—Dry woods at Mattituck. Aug. 21, 1920. No. 3405.

Asclepias exaltata (L.) Muhl.—Rare in wet woods at Southold, south of Great Pond. July 30, 1920. No. 3565.

Phlox subulata L.—Escaped in old yards at Orient. Sept. 10, 1920. No. 3428.

Lithospermum arvense L.—Field at Southold (Mrs. Mitchell); determined at U. S. Dept. of Agriculture. Dry cultivated field at Bay View. May 1, 1919. No. 2158.

Onosmodium virginianum (L.) DC.—Dry or moist woods at Fleets Neck at Cutchogue. Sept. 14, 1919. No. 2246.

Cunila origanoides (L.) Britton—Very rare in oak woods on Fleets Neck at Cutchogue. Sept. 14, 1919. No. 2262.

Koellia flexuosa (Walt.) MacM.—Dry open woods on Gardiner's Island. Sept. 20, 1920. No. 3424.

K. incana (L.) Ktze.—Common in dry hilly woods at Southold. Oct. 19, 1919. No. 1909.

K. mutica (Mx.) Britton—Dry woods at Southold. Sept. 21, 1919. No. 4052.

Leonurus Cardiaca L.—Waste places at Bay View. Aug. 21, 1920. No. 3413.

Lycopus rubellus Moench—Greenport and Southold in low woods, frequent.

Mentha piperita L.—Roadside at Cutchogue. Oct. 14, 1919. No. 4045.

Stachys hyssopifolia Mx.—Gardiner's Island. July 14, 1918. No. 1258.

Physalis heterophylla Nees—Locally common as a weed in light cultivated soil at Cutchogue. Oct. 4, 1919. No. 4047.

Pentstemon digitalis (Sweet) Nutt.—Rare in dry ground at Southold. Aug. 28, 1920. No. 3384.

Utricularia macrorhiza LeConte—Laurel. Sept. 10, 1917. (*Utricularia vulgaris* of Am. Auth.)

Galium Mollugo L.—Orient. July 15, 1918. No. 125.

G. verum L.—Field at Southold (Mrs. Mitchell).

Viburnum cassinoides L.—Laurel. Sept. 14, 1918. No. 1316. Rich woods at Greenport. Oct. 30, 1920. No. 3451.

Cucurbita Pepo L.—Several specimens growing wild on sand dunes at Southold. Not an uncommon escape on farms and in waste places.

Micrampelis lobata (Mx.) Greene—Orient. Sept. 1, 1918. No. 1310.

Sicyos angulatus L.—Rare in waste places at Greenport.

Hieracium aurantiacum L.—Rich soil along old road in woods at Southold. Sept. 29, 1920. No. 3465.

H. mariannum Willd.—Dry soil at Southold (Mrs. Mitchell).

Lactuca canadensis L.—The var. *integrifolia* (Bigel.) Gray in dry woods at Cutchogue (No. 3398), Aug. 15, 1920; and Orient (No. 1335), Sept. 30, 1918. This includes the previously reported *L. canadensis* v. *montana* Britton and *Lactuca sagittifolia* Ell.

Lactuca Scariola L.—Dry woods at Bay View. Sept. 5, 1920. No. 3436. Also the var. *integrata* Gren. & Godr. in sandy places at Orient. Sept. 15, 1920. No. 3418.

Nabalus trifoliolatus Cass., var. *obovatus* var. nov. Leaves purplish, membranous, obovate or oblanceolate, or deltoid, acute, on margined petioles, slightly denticulate or entire. Moist woods at Orient. Oct. 1919. No. 3375. Plants with deltoid leaves were found in dry ground at Bay View. Aug. 29, 1920. No. 3446.

Aster laevis L.—The var. *amplifolius* Porter is rare along wet margins of woods at Orient. Oct. 11, 1919. No. 2201.

A. Lowrieanus Porter—Uncommon in rich woodlands at Greenport and Orient (Mr. Ferguson); verified at the N. Y. Bot. Garden.

A. vimineus Lam.—Dry or wet soil in fields at Gardiner's Island. Sept. 19, 1920. No. 3421.

Centaurea maculosa Lam.—Dry fields at Cutchogue. Oct. 19, 1919. No. 2111.

C. nigra L.—The var. *radiata* DC. in dry pastures at Cutchogue. Oct. 19, 1919. No. 2110.

C. solstitialis L.—Field at Southold (Mrs. Mitchell); determined at U. S. Dept. of Agriculture.

Cirsium muticum Mx.—Gardiner's Island in wet woods. Sept. 20, 1920. No. 3429.

Lacinaria scariosa (L.) Hill.—A single plant in dry woods at Fleets Neck, Cutchogue. Sept. 14, 1919. No. 2245.

Solidago ulmifolia Muhl.—Dry hillside at Southold. Sept. 1, 1920. No. 3394.

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THE FLORA OF THE TOWN OF SOUTHOLD, LONG ISLAND, AND GARDINER'S ISLAND, NEW YORK

STEWART H. BURNHAM AND ROY A. LATHAM

Third Supplementary List*

INSECT GALLS

Amphibolips acuminata Ashm.—Very abundant on *Quercus ilicifolia* at Laurel;
determined by Dr. E. P. Felt.

Cecidomyia viticola O.S.—On leaves of *Vitis* at Mattituck; determined by Dr.
Felt.

* The Preliminary flora was published in *Torreya* 14: 201–225. Nov. 1914
and 229–254. Dec. 1914. The First Supplementary List was published in
Torreya 17: 111–122. July 1917. The Second Supplementary List was pub-
lished in *Torreya* 21: 1–11. Jan.–Feb. 1921 and 28–33. March–April 1921.

Phytophaga rigidae O.S.—On leaves of *Salix discolor* at Southold; determined by Dr. Felt.

MYXOMYCETES

Enteridium splendens Morg.—On wood of *Quercus* at Orient; determined by Prof. John Dearness.

Hemitrichia stipitata (Mass.) Macbr.—Orient on rotten wood of *Quercus velutina*; determined by Prof. Dearness.

Physarum cinereum (Batsch) Pers.—On old corn stalks, *Zea Mays*, at Orient; determined by Prof. Dearness.

EUPHYCEAE

Chara formosa C. B. Robinson—Great Pond, Southold, on pure sandy bottom in 2 feet of water. No. 1181. Determined by Dr. M. A. Howe who says, "a nearly related species has sometimes been identified as *Chara sejuncta* A. Br."

Gloiotrichia natans (Hedw.) Rabenh.—Attached to water plants in ponds; determined by Dr. Howe.

Licmophora gracilis (Ehrenb.) Grun.—Rocks at ebb tide, Gardiner's Bay; determined by Chas. S. Boyer.

Microspora stagnorum (Kütz.) Lagerh.—Shallow pool in woods at Greenport; determined by Dr. T. E. Hazen.

Microspora tumidula Hazen—Shallow pool in woods at Greenport; determined by Dr. Hazen.

Nitella flexilis Ag.—Shallow ponds at Southold; determined by Dr. Howe.

Nitella transilis Allen—Great Pond, Southold, on pure sandy bottom in water 2 feet deep. No. 1180. Determined by Dr. Howe who says, "a nearly related species has sometimes been identified as *Nitella tenuissima* (Desv.) Coss. & Germ."

Synedra tabulata (Ag.) Kütz.—Rocks at ebb tide, Gardiner's Bay; determined by Mr. Boyer.

Tribonema bombycinum (Derb. & Sol.) Hazen—Shallow woodland pool at Laurel; determined by Dr. Hazen.

PHYCOMYCETES

Phytophthora infestans (Mont.) DeBary—Common on potato, *Solanum tuberosum*; determined by Prof. Dearness.

ASCOMYCETES (excluding PYRENOMYCETES)

Aleuria aurantia (Pers.) Fckl.—Bare earth on hills at Orient; determined by Prof. Dearness.

Bulgaria rufa Schw.—On buried wood, Cutchogue; determined by Dr. C. G. Lloyd, who says, "recent writers have proposed to separate this from *Bulgaria inquinans* on account of its hyaline spores." Reported in Mycol. Notes 65: 1077. Nov. 1920.

Cudoniella marcida (Müll.) Sacc.—On earth in rich woods, Greenport; determined by Dr. Lloyd, who says, "The four species of *Leotia* we have are distinguished chiefly by the color (compare Geo-

glossaceae, p. 15). All usually have greenish color or cast at least, but this species impressed us at once by the absence of any green tint. The stipe is white and the head pale brownish, while *Leotia marcida* usually has a 'greenish olive' head and a yellowish stem. It is the only one of the forms that is not decidedly green, hence we so refer this species rather than to base a new name. The spores are hyaline ($6 \times 20 \mu$) with no greenish cast. . . . When soaked the plant is a very bright color. It develops a faint greenish tint on the stem but none on the head."

Exoascus alnitorkuus (Tul.) Sadeb.—On fruit of *Alnus incana* at Southold; determined by Dr. H. D. House.

Geoglossum hirsutum Pers.—In wet woods on earth, Cutchogue; determined by Dr. Lloyd; Mycol. Notes 65: 1077. Nov. 1920.

Helotium epiphyllum (Pers.) Fr.—Old leaves in woods at Cutchogue; determined by Prof. Dearness.

Phacidium brunneolum Pk.—On leaves of *Galium Claytoni*, Gardiner's Island; determined by Prof. Dearness.

Pitya cupressii (Batsch) Fckl.—Orient on *Juniperus virginiana*; determined by Prof. Dearness. (*Lachnella cupresii* (Batsch) Phillips.)

ASCOMYCETES (PYRENOMYCETES)

Anthostomella endoxyloides Fairman—"On a dead tree of some species of *Populus*, Orient, N. Y., Sept., 1919, Roy Latham, no. 2073." A new species, described by Dr. Chas. E. Fairman in Proc. Rochester Acad. Sci. 6: 125. April 1922.

Diaporthe Peckii Sacc.—Orient on *Rhus radicans*. No. 3503. Determined by Prof. Dearness, who says, "I do not know of any other collection of this than the one Peck made in 1885 at Saugerties, N. Y. Dr. Peck calls this *Diaporthe sparsa* but Saccardo changed it to *Peckii*."

Eutypella angulosa Nitsch—Orient and Greenport on trunks and branches of *Betula populifolia*; determined by Prof. Dearness.

Eutypella Vitis (Schw.) E. & E.—On stems of *Vitis bicolor* at Orient; determined by Prof. Dearness.

Gloniopsis Lathami Fairman—"On dead stems of *Helianthus giganteus*, Orient, N. Y., May 12, 1918, Roy Latham, no. 1194." A new species, described by Dr. Fairman in Proc. Rochester Acad. Sci. 6: 129. April 1922.

Gloniopsis Lathami asymmetrica Fairman—"On dead stems of *Lilium canadense*, Orient, N. Y., May 12, 1918, Roy Latham." A new variety, described by Dr. Fairman in Proc. Rochester Acad. Sci. 6: 129-130. April 1922.

Hypocrea patella C. & P.—On oak branches on the ground in dry woods at Cutchogue; determined by Dr. Lloyd. Mycol. Notes 65: 1077. Nov. 1920, Note 991. *Hypocrea patella* "is a fairly common species around Cincinnati. While there is no doubt of the determination, I do not like the term 'bright yellow' as applied

to it. It is rather orange yellow or antique brown of Ridgway to my eye."

Hypoxylon commutatum Nitschke—Orient, on branches of peach, *Prunus Persica*; determined by Prof. Dearness.

Hypoxylon Howeianum Pk.—Greenport on branches of *Betula lenta*; determined by Prof. Dearness.

Hypoxylon marginatum (Schw.) Berk.—Gardiner's Island and Southold on *Fagus grandifolia*; determined by Prof. Dearness.

Hysterium Prostii Duby—On trunk of *Baccharis halimifolia* at Orient; determined by Prof. Dearness.

Hysterographium praelongum (Schw.) E. & E.—On stems of *Rosa blanda* at Orient; determined by Prof. Dearness.

Hysterographium Smilacis (Schw.) E. & E.—On stems of *Smilax rotundifolia* at Orient; determined by Prof. Dearness.

Melanomma caryophagum (Schw.) Sacc.—On hickory nuts, Orient; as reported by Dr. Fairman in Proc. Rochester Acad. Sci. 6: 101. Sept. 1921. Previously reported as *Trematosphaeria nuclearia* (DeNot.) Sacc.

Nummularia Bulliardii Tul.—On trunk of *Quercus velutina* at East Marion; determined by Prof. Dearness.

Rosellinia aquila (Fr.) DeNot.—Greenport on trunk of *Carya glabra*; determined by Prof. Dearness.

Xylaria brasiliensis (Theiszen)—On earth in a cornfield at Greenport in September. Determined by Dr. Lloyd who says; "We considered and figured this (Mycol. Notes no. 61: 893, Fig. 1559. Oct. 1919) from Brazil, but hardly expected it to come from New York. Surely it is the same plant, the features and habitat—growing in the ground with long rooting base, the simple clubs, the protruding small perithecia and the small spores, $4 \times 6 \mu$. The spores are smaller than the brazilian plant which measures up to $4 \times 8 \mu$. Sometime ago we received a lot of *Xylaria* from Carlos E. Chardon, Porto Rico, and one that although immature, we referred to *Xylaria brasiliensis*. We overlooked the label. This was collected by Prof. H. H. Whetzel at Ithaca, and hence Mr. Latham's collection is the second made in the United States. It is a rare find and a fine collection."

MELANCONIALES

Didymosporium propolidioides Fairman—"On old decorticated cedar (*Juniperus*) stump, Orient, N. Y., May 1917, Roy Latham, no. 852." A new species described by Dr. Fairman in Proc. Rochester Acad. Sci. 6: 124. April 1922.

Melanconium sphaerospermum (Pers.) Link—On old stems of bamboo, *Bambusa* at Orient; determined by Dr. Fairman.

Pestalozzia nucicola E. & E.—On hickory nuts (*Carya*), Orient; determined by Dr. Fairman and reported in Proc. Rochester Acad. Sci. 6: 88. Sept. 1921.

SPHAEROPSIDAE

Ascochyta Alismatis (Oud.) Trail—On leaves of *Alisma Plantago-aquatica* at Greenport; determined by Prof. Dearness. (*Ascochyta Alismatis* E. & E.)

Leptostroma Mitchellae Fairman—"On dead stems of *Mitchella repens* L., Orient, N. Y., May 1916, Roy Latham." A new species described by Dr. Fairman in Proc. Rochester Acad. Sci. 6: 123. April 1922.

Leptostroma Smilacis Cke.—Orient on stems of *Smilax rotundifolia*; determined by Prof. Dearness.

Phomopsis Arctii (Lasch.) Trav.—On stems of *Arctium minus* at Orient; determined by Dr. Fairman.

Phomopsis sp.—In the note under the description of the new species, *Phomopsis rubiseda* Fairman, from Lyndonville, N. Y., in Proc. Rochester Acad. Sci. 6: 118. April 1922, Dr. Fairman says: "Mr. Roy Latham sends a *Phomopsis* from Orient, N. Y., no. 425 collected on *Rubus phoenicolasius* Maxim, April 18, 1915, which has pycnidia 65-100 μ in diam. and spores 9-12 \times .05-1 μ borne on slender hamate sporophores 20-24 μ long. On March 16 1916, Mr. Latham collected his no. 811 at Orient, N. Y., on *Rubus procumbens* Muhl., which proves to be another *Phomopsis* with fusoid, guttulate, hyaline spores 6-7 \times 1.5-2 μ which seems referable to *Phomopsis vespris* (Nitschke) Trav., but the Orient specimens have smaller pycnidia and more slender spores. Cultural studies are needed to clear up the variability in the species of *Phomopsis* on Rosaceae."

Phyllosticta Lycii Ell. & Kell.—On leaves of *Lycium halimifolium* at Orient; determined by Prof. Dearness.

Phyllosticta Staticis Petrak—On *Limonium carolinianum* at Orient; determined by Dr. Fairman.

Septoria Atriplicis Desm.—On leaves of *Atriplex patula*, var. *hastata* at Orient; determined by Dr. Fairman.

Septoria atropurpurea Pk.—On leaves of *Aster macrophyllus* at Mattituck; determined by Prof. Dearness.

Septoria Lycopersici Speg.—On leaves of tomato, *Lycopersicon esculentum*, common; determined by Prof. Dearness.

Septoria Sii Rob. & Desm.—On leaves of *Sium cicutaefolium*, common; determined by Prof. Dearness.

Septoria Trichostematis Pk.—On leaves of *Trichostema dichotomum* at Laurel; determined by Prof. Dearness, who says; "I think, this must be rather rare. Peck's first finding was in 1888 at Manor, Long Island."

Septoria Verbena Rob. & Desm.—On leaves of *Verbena urticaefolia* at Southold; determined by Prof. Dearness.

Sphaeropsis cerasina Pk.—On *Prunus serotina* at Orient; determined by Prof. Dearness.

Sphaeropsis Opuntiae Fairman—"On *Opuntia Opuntia*, Orient, N. Y., June 1919, Roy Latham, no. 1807 in part." A new species described

by Dr. Fairman in Proc. Rochester Acad. Sci. 6: 120. April 1922.

Vermicularia dematum (Pers.) Fr.—The *Vermicularia* common on herbaceous stems goes by the name *V. dematum*. “What appears to be the same thing was collected on hickory nuts at Orient, Long Island, N. Y., by Roy Latham in 1919. Mr. Latham’s specimens have setae 120-250 μ in height, and fusoid, curved spores measuring 20-27 \times 2.5-3 μ .” Other specimens of this species on hickory nuts in central New York, have setae 70-165 \times 6-7 μ ; and spores 17-24 \times 3.5-4 μ . Determined and reported by Dr. Fairman in Proc. Rochester Acad. Sci. 6: 83. Sept. 1921.

Vermicularia liliacearum Schw.—Greenport on stems of *Lilium canadense*; determined by Dr. Fairman.

USTILAGINACEAE

Melanopsichium austro-americanum (Speg.) G. Beck—Common in cultivated fields on *Polygonum Persicaria* at Mattituck; determined by Dr. H. S. Jackson.

PUCCINIACEAE*

Polythelia fusca (Pers.) Arth. Greenport on *Anemone quinquefolia*, May.

Puccinia Antirrhini D. & H.—Greenport on garden snapdragon, *Antirrhinum majus*.

Puccinia Cyperi Arth.—On *Cyperus Grayii* at Bay View.

Puccinia Majanthae (Schw.) A. & H.—On *Polygonatum biflorum* at Orient.

Puccinia obtecta Pk.—Common on *Scirpus americanus*.

Puccinia Pammelii (Trel.) Arth.—Greenport on *Panicum virgatum*; determined by Prof. Dearness.

Puccinia Polygoni-amphibii Pers.—On *Geranium maculatum*, Gardiner’s Island, May 8, 1922. Dr. Arthur says: “The *Geranium* rust which has its alternate forms on different species of *Polygonums* is a common, wide-spread rust; but this aecial form which you send has not before been reported from your vicinity. It is known from the coast of Delaware and from further inland all along the Atlantic states; but has not been reported from Long Island.”

Puccinia Seymouriana Arth.—Orient on *Spartina glabra*, var. *alterniflora*, October: “a new host for this species.”

TREMELLACEAE

Hormomyces aurantiaca Bon.—Greenport on wood of *Ilex verticillata*; determined by Dr. Lloyd. “It has curious spores and is to be cfr. with Mycol. Notes, p. 712, fig. 1066.”

* Unless otherwise stated, the Rusts were determined by Dr. J. C. Arthur and are preserved in the Herbarium of Dr. Arthur at Purdue University, Lafayette, Indiana.

DACRYOMYCETACEAE

Dacryomyces minor Pk.—On old wood at Orient; determined by Dr. Lloyd, who says, "I refer it to the above with doubt, but it appears to answer the description. It is a small (1 mm.) cushion shape, orange-yellow gelatinous plant, not changing much in drying. If consistently referred, its recent reference to *Dacryomyces deliquescent* is an error. It differs as noted above. But the structure is most puzzling and I think it is no *Dacryomyces*. The hymenial tissue is made up of branched septate hyphae (?) filled with granular matter septate and easily disarticulated into cylindrical hyaline guttulate spores (?). The sections have all the appearance of *Dacryomyces* spores. I find no basidia, although the forked hyphae (?) have much the appearance of *Dacryomyces* basidia."

THELEPHORACEAE

Peniophora laevigata Fr.—Bark of red cedar, *Juniperus virginiana* at Orient; determined by Dr. E. A. Burt, who says, "your specimen affords the first station for this species in the United States: I received a gathering several years ago from Canada."

Stereum albocabidum (Schw.) Fr.—Old stems of *Brassica oleracea gemmifera* (Brussels sprouts), "Orient, R. Latham (in Mo. Bot. Gard. Herb., 17267)," reported by Dr. Burt in Ann. Mo. Bot. Gard. 7: 218. Apr.–Sept. 1920.

HYDNACEAE

Hydnnum friabile Fr.—On earth in dry woods, Cutchogue; determined by Dr. Lloyd and reported in Mycol Notes 65: 1077. Nov. 1920. A species similar to *Hydnnum pulcherrimum* B. & C. (*H. septentrionale* Fr.)

(To be Continued.)

FLORA OF THE TOWN OF SOUTHOLD, LONG ISLAND

STEWART H. BURNHAM AND ROY A. LATHAM

Third Supplementary List, Part 2*

POLYPORACEAE†

Cyclomyces Greenii Berk.—Earth in low woods at Cutchogue; reported in Mycol. Notes 65: 1077. Nov. 1920.

Fomes applanatus (Pers.) Fr.—On trunks of *Baccharis halimifolia* at Orient; reported as *Fomes leucophaeus* Mont. in Mycol. Notes 65: 1077. Nov. 1920.

Fomes conchatus (Pers.) Fr.—On trunks of *Baccharis halimifolia* at Orient; reported in Mycol. Notes 65: 1077. Nov. 1920.

Fomes connatus Fr.—On trunks of *Salix nigra* at Southold.

Polyporus epileucus Fr.—On *Quercus velutina* at Greenport; Dr. Lloyd says "a rare species."

Polyporus galactinus Berk.—Cutchogue on old wood.

Polyporus rutilans (Pers.) Fr.—On *Quercus velutina* at Greenport.

Polyporus Schweinitzii Fr.—Southold on coniferous wood.

Polystictus focicola B. & C.—On earth in dry woods, Southold; determined by Dr. Lloyd, who says; "We refer this to *Polystictus focicola* on its large pores, although in reality it is a 'new species.' It is a large pored form of *Polystictus cinnamomeus* with bright cinnamon color, while *Polystictus focicola* proper is a large poroid form of *Polystictus perennis* with dull color."

* Part one of this list was published in *Torreya*, Vol. 23, No. 1, Jan.-Feb. 1923.

† The Polypores were determined by Dr. C. G. Lloyd and are preserved in the Herbarium of the Lloyd Museum and Library at Cincinnati, Ohio.

Trametes pusilla Lloyd.—Greenport on *Quercus alba*; determined by Mr. Lloyd, who says: "This is the second collection I have received. The original from Dr. Stocker, Minnesota, was published and figured on page 774 (of Mycol. Notes, no. 54). We described the pores as white, and so they are on fleshy dried specimens, but on these and on Dr. Stocker's specimens now they have turned reddish."

AGARICACEAE

Cantharellus carbonarius A. & S.—On earth in woods, Southold; determined by Dr. Lloyd.

Flammula sapinea Fr.—On trunk of *Quercus alba* in a swamp at Southold; determined by Dr. Lloyd.

Lentinus tigrinus (Bull.) Fr.—Rotten log of *Quercus velutina*, Cutchogue; reported by Dr. Lloyd in Mycol. Notes 65: 1077. Nov. 1920, who says, "These are the first specimens we have received that are not parasitized."

Marasmius fagineus Morg.—Orient; determined by Dr. Lloyd.

GASTEROMYCETES

Cyathus striatus (Huds.) Willd.—Orient; reported by Dr. Lloyd, Mycol. Notes 65: 1077. Nov. 1920.

Ithyphallus rubicundus (Bosc) Ed. Fisch.—Moore's woods in rich soil, Greenport, July 25, 1920; reported by Dr. Lloyd in Mycol. Notes 65: 1077. Nov. 1920, as *Phallus rubicundus*. Dr. Lloyd says: "Mr. Latham found but a single specimen, but the finding of the plant so far north is noteworthy as illustrative of exceptional northern distribution of tropical species. It is rare in our southern States and I believe has heretofore only been found in Florida. Mr. Latham's plant is *Phallus gracilis* as illustrated in the Phalloid Synopsis, Fig. 6, but as there stated it is only a slender form of *Phallus rubicundus* and the name *gracilis* should be dropped. It is the only one of the genus *Phallus* that is red."

Lysurus borealis (Burt) P. Henn.—On earth in cornfields; Orient and Greenport. Dr. Lloyd says: "You will find many references to this in my writings for it is a Phalloid not known to us 20 years ago. It was named *Anthurus borealis* by Burt but it is a *Lysurus* and probably same as *Lysurus australiensis* of Australia."

HEPATICAE

Calypogeia sphagnicola (Arn. & Perss.) Warnst. & Loeske.—Wet sandy soil at Laurel; determined by Dr. G. H. Conklin.

Lepidozia setacea (Web.) Mitt.—On wet, sandy bank at Laurel; determined by Dr. Conklin.

MUSCI*

Brachythecium acuminatum (Hedw.) Lindb.—Greenport, base of oak trees in wet woods.

Brachythecium plumosum (Sw.) B. & S.—Gardiner's Island.

Cirriphyllum Boscii (Schwaegr.) Grout.—Earth in dry woods at Laurel.

Ditrichum tortile (Schrad.) Hampe.—Wet sandy bank at Laurel.

Fontinalis Lescurii Sull.—Mattituck in water in a swamp.

Philonotis fontana (L.) Brid.—Gardiner's Island on earth in wet woods.

Polytrichum commune L., var. *perigoniale* (Mx.) B. & S.—In dry woods at Southold.

Sphagnum capillaceum (Weiss) Schrank, var. *tenellum* (Schimp.) A. L. Andrews.—Mixed with *Sphagnum palustre*.

Sphagnum fimbriatum Wils.

Sphagnum imbricatum Hornsch., var. *affine* (Ren. & Card.) Warnst.—Laurel.

Sphagnum palustre L.

Sphagnum subsecundum Nees—Gardener's Island in wet woods. No. 3562.

"A form of *S. subsecundum* in the broad sense . . for those who separate it into a number of species; it corresponds nicely with *Sphagnum auriculatum* Schimp."

PTERIDOPHYTA

POLYPODIACEAE

Athyrium thelypteroides (Mx.) Desv.—Orient; determined by Dr. F. W. Pennell.

SPERMATOPHYTA

Picea rubens Sarg.—The young seedlings of Gid's Island were destroyed by a fire during the spring of 1922.

Potamogeton ephyrinus Raf.—Laurel in shallow water; determined by Dr. Pennell.

Alopecurus aristulatus Michx.—Orient in waste places; determined by Mrs. Agnes Chase.

Danthonia compressa Austin.—Southold, common in dry woods, plants reaching 3 feet in height; determined by Mrs. Chase.

Eragrostis ciliaris (All.) Link.—Sandy cultivated fields at Bay View and Laurel; determined by Mrs. Chase and at the New York Botanical Garden. (*Eragrostis major* Host.; *E. megastachya* (Koeler) Link.)

Festuca Shortii Kunth.—Wet woods, Mattituck; determined by Mrs. Chase. (*Festuca obtusa* Spreng.)

Panicum barbulatum Mx.—Southold in wet sandy soil; determined by Mrs. Chase. In the preliminary list, this was included with *Panicum microcarpon* Muhl. as *Panicum barbulatum* Nash. Mrs. Chase, in her recent list, listed these plants as different species.

* The mosses were determined by Mr. G. B. Kaiser and deposited in the Herbarium of the Sullivant Moss Society; except the *Sphagnums* which were determined by Dr. A. L. Andrews.

Panicum Boscii Poir. var. *molle* (Vasey) Hitchc. & Chase.—Dry woods at Cutchogue; determined by Mrs. Chase.

Panicum pseudopubescens Nash.—Dry woods, Cutchogue; determined by Mrs. Chase.

Phalaris canariensis L.—Border of woods, Greenport (Grant Sterling); determined by Mrs. Chase.

Spartina cynosuroides (L.) Roth.—High borders of salt marshes at Bay View, plants 8 feet tall; determined by Mrs. Chase.

Spartina patens (Ait.) Muhl., var. *caespitosa* (Eaton) Hitchc.—High borders of salt marsh at Orient, in clumps, 3 feet tall; determined by Mrs. Chase.

Carex pennsylvanica Lam., var. *lucorum* (Willd.) Fernald.—Southold in dry woods, May; determined by Mr. G. P. VanEseltine.

Carex varia Muhl., var. *colorata* Bailey.—Southold in wet sandy soil, May; determined by Mr. Van Eseltine.

Scirpus campestris Britton, var. *paludosus* (A. Nels.) Fernald.—Bay View, no. 3690; determined by Dr. Pennell.

Sisyrinchium arenicola Bicknell.—Cutchogue, sandy borders of a salt marsh, common; determined by Dr. Pennell.

Habenaria ciliaris (L.) R. Br.—A colony of several dozen plants in low ground at Greenport (Grant Sterling).

Spiranthes Beckii Lindl.—Southold in sandy soil; determined by Mr. Pennell.

Ulmus americana L.—Gardiner's Island, May 6-8, 1921, in fruit; verified by Mr. Norman Taylor. The second Long Island record.

Rumex Britannica L.—Mattituck, no. 3695; determined by Dr. Pennell.

Polygonum esculentum Small.—Salt marshes, Cutchogue; determined by Dr. J. K. Small.

Kochia Scoparia (L.) Roth.—Orient, roadside and waste places; determined at the N. Y. Botanical Garden.

Oxybaphus linearis (Pursh) Robinson.—Dry sandy beaches at Orient; determined at the N. Y. Botanical Garden.

Silene conica L.—A weed in sandy fields at Laurel and Cutchogue, no. 3477; determined by Dr. Pennell, who says, "we have no specimen of this European species from the New World, nor is it included in any of our manuals."

Ranunculus repens L.—Gardiner's Island; determined by Mr. Taylor.

Akebia quintata Decaisne.—Escaped at Orient, no. 3421; determined by Dr. Pennell.

Chelidonium majus L.—Waste places in woods, Southold (Mrs. M. A. Fay).

Sisymbrium Thalianum (L.) J. Gay.—Cutchogue in sandy fields; determined at the N. Y. Botanical Garden.

Ribes Grossularia L.—Dry woods, Laurel; determined at the N. Y. Botanical Garden.

Agrimonia striata Mx.—Greenport in dry woods; determined at the N. Y. Botanical Garden.

Crataegus macrosperma Ashe.—Orient in low woods; determined by Mr. W. W. Eggleston.

Crataegus pruinosa (Wendl.) K. Koch.—Several small trees in dry woods at Greenport; determined by Mr. Eggleston.

Crataegus straminea Beadle.—Orient in low woods, near salt marsh; determined by Mr. Eggleston. (*Crataegus intricata* Sarg.)

Rubus argutus Link.—Orient in low woods; determined at the N. Y. Botanical Garden.

Rubus Enslenii Tratt.—Mattituck in hilly woods; determined at the N. Y. Botanical Garden.

Rubus nigricans Rydb.—Southold in sandy soil, plants spreading on the ground in open fields; determined by Dr. P. A. Rydberg.

Cassia Chamaecrista L.—Southold, August 1914 (H. E. Gordon); in the Herbarium of the N. Y. State College of Agriculture at Ithaca.

Desmodium laevigatum (Nutt.) DC.—Dry woods, Southold; determined at the Bureau of Plant Industry, Washington.

Lespedeza repens (L.) Bart.—Southold in dry woods.

Oxalis corniculata L.—Orient in rich woods, plants reaching 2 feet in height; determined by Dr. Pennell as *Oxalis cymosa* Small.

Ilex verticillata (L.) Gray.—Specimens showing the variability of the species; determined by Dr. Pennell.

Evonymus europaeus L.—East Marion, border of woods and roadside (Mabel Wiggins); verified at the N. Y. Botanical Garden.

Hypericum boreale (Britton) Bicknell.—Gardiner's Island, no. 3869, rare; determined by Dr. Pennell.

Helianthemum dumosum (Bickn.) Fernald.—Dry open woods, Southold and Cutchogue, no. 4056. Dr. Pennell says, "a species characteristic of Nantucket and the Cape Cod country, but of which yours is our first specimen from Long Island."

Lechea minor L.—Cutchogue and Southold in dry woods; determined by Dr. Pennell.

Coelopleurum actaeifolium (Mx.) Coulter & Rose.—Dry hills facing the Sound, Orient and East Marion; determined by Dr. J. N. Rose. Mr. Latham wrote Dr. Rose, April 1921, as follows. "The specimens were not very good as they were taken late in December while collecting birds. The plants were quite common along the top of the Sound bank in high rocky dry ground. At that date, the basal leaves were green, and the dry fruiting stalks were from 4-6 feet high. It was a stout plant. *Ligusticum scoticum* is a very common plant at the borders of salt marshes in Orient. It is different from this plant; it is not as stout, nor so tall and never grows in such high dry grounds." Mr. Latham again collected it in June 1921, and wrote Dr. Rose as follows. "I am sending you today specimens collected the past summer at Orient. There is quite a colony of this species growing on a high bank of the Sound coast and about three miles east another small colony on a low beach between the Sound and Bay." Dr. A. W. Evans in *Torreya*, June 1917, reported *Coelopleurum actaeifolium* from Fisher's Island, the only other station known further south than Nantucket, Massachusetts.

Cornus alternifolia L. f.—Gardiner's Island, probably introduced; determined by Dr. Pennell.

Hypopitys insignata Bicknell.—Frequent in rich woods at Greenport, Southold, Peconic and Cutchogue. Plants highly colored, red or crimson. Dr. Pennell says: "This bright-flowered plant of the early fall was described in the Torreya Bulletin for August 1914, from Martha's Vineyard; it is certainly a brilliant species."

Vaccinium vacillans Kalm, var. *crinitum* Fernald.—Dry woods, Laurel; determined by Dr. Pennell.

Buddleia Davidii Franch.—Escaped, border of swamp at Southold; determined at the N. Y. Botanical Garden.

Lamium purpureum L.—Orient in cultivated fields and waste places; determined at N. Y. Botanical Garden.

Monarda fistulosa L.—Orient in rich woods.

Salvia pratensis L.—In fields and pastures at Orient, frequent before the war, now disappearing with the plowing of old fields. No. 3422. Determined by Dr. Pennell, who says, "Your plant is smaller-flowered than any of our eastern specimens; but I think it must be a form of this species."

Satureja vulgaris (L.) Fritsch.—Southold, roadsides, rare (Mrs. F. R. Mitchell); Gardiner's Island (E. S. Miller), reported as *Calamintha Clinopodium* Benth., in Bull. Torr. Bot. Club 7: 18. Feb. 1880.

Veronica americana Schwein.—Greenport in wet woods; determined at N. Y. Botanical Garden.

Hieracium praealtum Vill.—Sandy beaches at Orient, rare; determined at N. Y. Botanical Garden.

Hieracium pratense Tausch.—Greenport in fields; determined at N. Y. Botanical Garden.

Prenanthes altissima L.—Mattituck in dry woods and sandy beaches; determined at N. Y. Botanical Garden.

Achillea Ptarmica L.—Orient in fields and waste places; determined by Dr. Pennell.

Aster Schreberi Nees.—Dry woods, Southold, basal leaves reaching 8 inches in length; determined by Dr. Pennell.

Centaurea cineraria L.—Waste places, rare, Orient; determined at N. Y. Botanical Garden. (*Centaurea candidissima* Lam.)

Centaurea paniculata L.—Roadsides, locally common, Bay View; determined at N. Y. Botanical Garden.

Chrysanthemum Parthenium (L.) Bernh.—Occasional in waste places and fields.

Coreopsis lanceolata L.—Southold in dry pastures, a rare escape; determined at N. Y. Botanical Garden.

Eupatorium urticaefolium Reichard.—Dry woods, Southold; determined by Dr. Pennell.

Helenium nudiflorum Nutt.—Sandy swamp at Southold; determined at N. Y. Botanical Garden.

Solidago puberula Nutt.—Dry open woods at Laurel; determined at N. Y. Botanical Garden.

The total number of species recorded in the preliminary, the first, the second and the third supplementary lists is 2461.

The number of Insect Galls, 93; Slimemolds, 15; Algae, 101; Fungi, 813; Lichens, 126; Hepatics, 31; Mosses, 106; Ferns, 36; Flowering Plants, 1130.

Cudoniella marcida (Müll.) Sacc.—The note in the Third Supplementary list was published in Dr. C. G. Lloyd's Mycol. Notes **68**: 1182, fig. 2387. Jan. 1923.

Helvella elastica Bull.—Earth in dry woods at Mattituck; determined by Dr. C. G. Lloyd.

Leotia chlorocephala Schw.—Earth in dry woods at Laurel; determined by Dr. Lloyd and reported in Mycol. Notes **69**: 1188. July 1923.

Orbilia vinosa (A. & S.) Karst. Dead twigs in a swamp at Laurel; determined by Dr. Chas. E. Fairman.

Phialea Aspegrenii (Fr.) Gill.—Old twigs in rich woods at Mattituck; determined by Prof. Dearnness.

Pyrenopeziza subatra (C. & P.) Sacc.—On *Solidago* at Orient; determined by Prof. Dearnness.

PYRENOMYCETES

Caryospora Putamium (Schw.) DeNot.—On peach, *Prunus Persica* pits at Orient; determined by Dr. Fairman.

Chaetomium elatum Kuntze—On *Quercus velutina* at Orient; determined by Prof. Dearnness.

Diaporthe Baccharidis (Cke.) Sacc.—On *Baccharis halimifolia*; determined by Prof. Dearnness.

Diaporthe oncostoma (Duby) Fckl.—On *Amelanchier canadensis* at Orient; determined by Prof. Dearnness.

Diatrype asterostoma B. & C.—On *Amelanchier* at Orient; determined by Prof. Dearnness.

Diatrype bullata (Hoffm.) Fr.—On *Acer platanoides* at Orient; determined by Prof. Dearnness.

Diatrype fibrillecta C. & E.—Orient on dead branches of *Juniperus virginiana* lying on the ground; determined by Prof. Dearnness, who says, "a fine thing."

Diatrype Maclurae E. & E.—On *Rhus Toxicodendron*, var. *radicans* at Orient; determined by Prof. Dearnness.

Erysiphe graminis DC.—On wheat, *Triticum aestivum* at Orient; determined by Prof. Dearnness.

Eutypa ludibunda Sacc.—On *Gleditsia triacanthos* at Orient; determined by Prof. Dearnness.

Eutypella constellata (B. & C.) E. & E.—Greenport on *Carya glabra*; determined by Prof. Dearnness.

Eutypella glandulosa (Cke.) E. & E.—On *Ailanthes glandulosa* at Mattituck; determined by Prof. Dearnness.

Hypomyces chrysospermus Tul.—The conidial form *Sepedonium* on *Boletus*; determined by Dr. Lloyd and reported in Mycol. Notes **69**: 1188. July 1923.

Hysterium angustatum A. & S.—Orient on twigs of *Crataegus Crus-galli*; determined by Prof. Dearnness.

Hysterographium Mori (Schw.) Rehm, var. *Gerardi* C. & P.—On *Prunus serotina* at Orient; determined by Prof. Dearnness.

Hysterographium Putarium (Cke.) Sacc.—On pits of *Prunus maritima* at Southold; determined by Dr. Fairman, who says, "a rare species."

Lophodermium arundinaceum Chev., var. *culmigenum* (Fr.) Fckl.—Mostly *Leptostromella hysterioides* Sacc. On *Triticum aestivum* at Mattituck; determined by Prof. Dearness.

Melanconiella Decoraensis (Ellis) Sacc.—"Dead branches of *Betula populifolia* Marsh., Orient, Long Island, Roy Latham, March 1919. Determined by Dearness." N. Y. State Mus. Bull. 243-244: 85. Issued May 15, 1923.

Metasphearia defodiens (Ellis) Sacc.—Stems of *Juncus dichotomus*, Southold; determined by Prof. Dearness, who says, "near this" species. "The only record I know for this is Iona, N. J."

Phyllachora Agrostidis Orton—"On leaves of *Agrostis alba*. Orient, Long Island, Roy Latham, no. 610, October 18, 1914. Determined by Dr. C. R. Orton." N. Y. State Mus. Bull. 243-244: 91. Issued May 15, 1923.

Phyllachora puncta (Schw.) Orton—"Leaves of *Panicum Wrightianum*, Southold, Latham, no. 611, November 4, 1914. Determined by Dr. C. R. Orton." N. Y. State Mus. Bull. 243-244: 92. Issued May 15, 1923.

Phyllactinia corylea (Pers.) Karst.—Leaves of *Betula populifolia* at Greenport; determined by Prof. Dearness.

Physalospora thyoides (C. & E.) Sacc.—On *Juniperus virginiana* at Orient; determined by Prof. Dearness.

Rosellina albolanata E. & E.—On *Quercus velutina*; determined by Dr. Fairman.

Trematosphaeria pertusa (Pers.) Fckl.—Pits of Burbank plum, *Prunus trifolia* x; determined by Dr. Fairman.

Valsa Hoffmanni Nke.—Greenport on *Crataegus Crus-galli*; determined by Dr. Fairman.

Valsa leucostoma (Pers.) Fr.—Orient on *Malus*; determined by Prof. Dearness.

Valsa obtecta C. & E.—On *Clethra alnifolia* at Laurel; determined by Prof. Dearness.

Xylaria apiculata Cke.—Bark of living oak at Greenport; determined by Dr. Fairman, who says, "According to Lloyd. In Rehm Ascomyces, No. 1912, a similar thing is called *X. arbuscula* Sacc., var. *biceps* Speg."

Xylaria brasiliensis (Theiszen)—The note in the Third Supplementary list was published in Dr. Lloyd's Mycol. Notes 68: 1175, fig. 2338. Jan. 1923.

HYPOMYCETES

Alternaria Solani (E. & M.) Jones & Grout—On *Solanum tuberosum*, common; determined by Prof. Dearness.

Cercospora Symplocarpi Pk.—On *Symplocarpus foetidus* at Greenport; determined by Prof. Dearness.

Cercospora varia Pk.—On *Viburnum dentatum* at Greenport; determined by Prof. Dearness.

Cladosporium epimyces Cke.—On *Pleurotus ostreatus* at Orient; determined by Prof. Dearness.

Helminthosporium obclavatum Sacc.—Orient on *Juniperus virginiana*; determined by Prof. Dearness.

Heterosporium gracile (Wallr.) Sacc.—Orient on *Iris*; determined by Prof. Dearness.

Isaria farinosa (Dicks.) Fr.—On pupa in rich woods at Mattituck. Determined by Dr. Fairman, who says, "It is probably the var. *prolifero-ramosa* of Saccardo, though I have not seen this and have no record of its finding in this country."

Ramularia Plantaginis Ell. & Mart.—Orient on *Plantago Rugeili*; determined by Prof. Dearness.

Septocylindrium aromaticum Sacc.—Southold on *Acorus Calamus*; determined by Prof. Dearness.

Stilbum erythrocephalum Dittm.—Orient on droppings of chickens; determined by Dr. Fairman.

Trichothecium roseum (Pers.) Link—On stems of *Akebia quinata* at Orient; determined by Prof. Dearness.

Tubercularia rosea Schreb.—*Illosporium roseum* (Schreb.) Mart. Orient on pine wood. Determined by Dr. Lloyd, who says, " *Tubercularia rosea* from Roy Latham, New York. We name this only as a guess or rather two guesses. First, that it answers the 'description,' habits, etc., of *Dacryomyces roseus* as named by Fries, and second, that *Dacryomyces roseus* is really a *Tubercularia*. All these little gelatinous plants were called *Dacryomyces* or *Tremella* by the old namers who did not examine them with the microscope. It is a very small rose-colored tremellaceous cushion growing on a mossy substratum which fits '*Dacryomyces roseus*.' That is about all I think anyone knows about it." Reported in Mycol. Notes 69: 1211. July 1923 as "Note 1180."

MELANCONIALES

Gloeosporium fructigenum Berk.—Old fruit of *Pyrus communis* at Orient; determined by Prof. Dearness. A stage of *Glomerella cingulata* (Atks.) S. & S.

Myxosporium subviride E. & E.—Greenport on *Betula*; determined by Prof. Dearness.

SPHAEROPSIDEAE

Aposphaeria nucicola E. & E.—Orient on nuts of *Carya glabra*; determined by Dr. Fairman.

Aposphaeria Putamium (Speg.) Sacc.—Pits of German prune, *Prunus domestica* at Orient; determined by Dr. Fairman.

Ascochyta Dianthi (A. & S.) Berk.—Orient on *Dianthus Armeria*; determined by Prof. Dearness.

Ascochyta Philadelphi Sacc. & Speg.—On *Philadelphus coronarius*, Laurel, no. 1137; determined by Dr. Fairman, who requested that the

following notes be published. "*Ascochyta Philadelphi* Sacc. & & Speg.? Pycnidia scattered, subepidermal becoming erumpent, globose depressed, centrally ostiolate, of delicate pseudo pycnidial structure, brown or black, about 200μ in diam.; spores numerous, ellipsoid, rounded at the ends, at first continuous and unconstricted, becoming with age uniseptate and slightly constricted at the middle, greenish hyaline, $7.5 \times 3.5\mu$. On living or languishing stems of *Philadelphus* sp. Laurel, N. Y. This is probably the stem form of the above species. The specimens are in a young condition and show mostly Phoma-like spores."

Ascochyta Pisi Lib.—Mattituck on *Vicia*; determined by Prof. Dearness.

Camarosporium Berkleyanum (Lev.) Sacc.—On *Ailanthus glandulosa*, Mattituck; determined by Prof. Dearness. *Camarosporium subfrenestratum* (B. & C.) Sacc. of some botanists.

Dinemasporium hispidulum (Schrad.) Sacc., var. *herbarum* Cke.—Stems of *Thalictrum revolutum* at Orient; determined by Prof. Dearness.

Discosia Artocreas (Tode) Fr. (*Discosia faginea* Lib.)—Greenport on leaves of *Fagus grandifolia*; determined by Prof. Dearness.

Discula Platani (Pk.) Sacc.—Orient on branches of *Platanus occidentalis*; determined by Prof. Dearness.

Haplosporella Bignoniae (Schw.) Starb.—On *Tecoma radicans* at Orient; determined by Dr. Fairman.

Haplosporella Dulcamara Dearn. & House—"On dead stems of *Solanum Dulcamara* L., Sandlake, Rensselaer County, Dr. C. H. Peck (Type), year not indicated. Orient, Long Island, Roy Latham, 1916. . . ." N. Y. State Mus. Bull. 243-244: 75. Issued May 15, 1923.

Hendersonia Desmazieri Mont.—Orient on *Platanus occidentalis*; determined by Prof. Dearness.

Leptostroma herbarum (Fr.) Link—Laurel on *Dioscorea villosa*; determined by Prof. Dearness.

Leptostroma Pinastri Desm.—Needles of *Pinus rigida* and *P. Strobus*, throughout the region; determined by Prof. Dearness.

Phoma glandicola (Desm.) Lev.—On insect galls on *Quercus alba* at Greenport; determined by Dr. Fairman.

Phoma Mariae Clinton—Orient on *Lonicera japonica*; determined by Prof. Dearness.

Phoma subcircinata E. & E.—Pods of *Phaseolus lunatus* at Cutchogue; determined by Dr. Fairman.

Phoma Syringae B. & C.—Orient on *Syringa vulgaris*; determined by Prof. Dearness.

Phomopsis depressa (Lev.) Trav.—Orient on *Syringa vulgaris*; determined by Dr. Fairman.

Phomopsis epicarpa Sacc.—Pods of *Robinia Pseudo-Acacia* at Orient; determined by Dr. Fairman.

Phyllosticta Amaranthi Ell. & Kell.—Laurel on *Acnida tuberculata*; determined by Prof. Dearness, who says that he is "not aware that this has been collected on *Acnida* before."

Phyllosticta Lappae Sacc.—Orient on *Arctium minus*; determined by Prof. Dearness.

Phyllosticta latifoliae E. & E.—Greenport on *Kalmia latifolia*; determined by Prof. Dearness.

Phyllosticta Nyssae Cke.—Greenport on *Nyssa sylvatica*; determined by Prof. Dearness.

Phyllosticta smilacina (Pk.) Dearn.—(*Sphaeropsis smilacina* Pk.)—On leaves of *Smilax* at Southold and Orient; determined by Prof. Dearness.

Septoria carpogena E. & E.—Old fruit of *Celtis occidentalis* at Mattituck; determined by Dr. Fairman.

Septoria Celtis-galla Gerard—Old galls on *Celtis occidentalis* at Mattituck; determined by Dr. Fairman.

Septoria lepidiicola Ell. & Mart.—On *Lepidium* at Orient; determined by Prof. Dearness.

Sphaeronema clethrinolum Ell.—Greenport on *Clethra alnifolia*; determined by Prof. Dearness.

Sphaeropsis Betulae Cke., var. *lutea* Dearn. & House—On *Betula populifolia* at Orient; determined by Prof. Dearness. The variety on dead branches of *Betula lutea* is described in N. Y. State Mus. Bull. 243-244: 79. Issued May 15, 1923.

Sphaeropsis Cydoniae C. & E.—Orient on *Cydonia japonica*; determined by Prof. Dearness.

Sphaeropsis pericarpii Pk.—On nut of *Carya glabra* at Orient; determined by Dr. Fairman.

Sphaeropsis Sassafras C. & E.—Orient on *Sassafras*; determined by Prof. Dearness.

Sphaeropsis simillima Pk.—On *Acer rubrum* and *Acer platanoides* at Orient; determined by Prof. Dearness.

USTILAGINACEAE

Ustilago sphaerogenes Burr.—Orient on *Echinochloa Walteri*; determined by Dr. H. S. Jackson.

PUCCINIACEAE

Aecidium Apocyni Schw.—On *Apocynum androsaemifolium* at Mattituck; determined by Dr. Jackson.

Cronartium cerebrum (Pk.) Hedg. & Long—Peconic on *Pinus rigida*; determined by Prof. Dearness.

Cronartium comptoniae Arth.—Southold on *Pinus rigida*; determined by Dr. Jackson.

Earlia speciosa (Fr.) Arth.—Cutchogue on *Rosa blanda*; determined by Dr. Jackson. (*Phragmidium speciosum* (Fr.) Cke.)

Puccinia Andropogonis Schw.—On *Chelone glabra* at Greenport; determined by Dr. Jackson.

Puccinia angustata Pk.—On *Lycopus virginicus* at Greenport; determined by Dr. Jackson.

Puccinia asperifolii (Pers.) Wettst.—On *Secale cereale*, common; determined by Dr. Jackson.

Puccinia Asterum (Schw.) Kern—Orient on *Dulichium arundinaceum*; determined by Prof. Dearness.

Puccinia Fraxinata (Link) Arth.—On *Fraxinus americana* at Greenport and Southold; determined by Dr. Jackson.

Puccinia Hibisciatum (Schw.) Kell.—Orient on *Muhlenbergia sylvatica*; determined by Dr. Arthur.

Puccinia Iridis (DC.) Wallr.—Common on *Iris versicolor* at Orient and Greenport; determined by Dr. Arthur.

Puccinia pustulatum (Curtis) Arth.—Orient on *Andropogon scoparius*; determined by Prof. Dearness.

Uredinopsis mirabilis (Pk.) Magnus—“11, 111, on fronds of *Onoclea sensibilis* L., Gardiner's Island, Roy Latham, August 1919. On fronds of *Lorinseria areolata* (L.) Presl., [*Woodwardia areolata*] at Greenport, Latham, August 1920. The aecial stage (*Peridermium balsameum* Peck) occurs on *Abies balsamea* (L.) Mill., a host tree, not known to occur on Long Island. It has been collected by Peck on *Archisteia virginica* (L.) Presl., [*Woodwardia virginica*] at Manor, Long Island.” N. Y. State Mus. Bull. 243-244: 85. Issued May 15, 1923.

Uromyces Hedsari-paniculati (Schw.) Farl.—“On leaves of *Meibomia Dillenii* (Darl.) Ktze., [*Desmodium Dillenii*] at Bay View, town of Southold, Long Island, Roy Latham, August 21.” (*Nigredo Hedsari-paniculati* (Schw.) Arth.). N. Y. State Mus. Bull. 243-244: 85. Issued May 15, 1923.

Uromyces seditus Kern—Laurel on *Aristida tuberculosa*; determined by Dr. Jackson who says, “new to New York state.” Also determined by Prof. Dearness.

TREMELLACEAE

Tremella lutescens Pers.—Old wood at Orient; determined by Dr. Lloyd.

DACRYOMYCETACEAE

Dacryomyces deliquescens (Bull.) Duby—On *Juniperus virginiana* at Orient; determined by Dr. Lloyd. “Note 1181—*Dacryomyces deliquescens* from Roy Latham, New York. This soaks out pale yellow and is *Dacryomyces deliquescens* of American mycology. This collection is the conidial condition and has abundant small globose, hyaline spores about 4 mic. in diameter and borne in chains. It has developed since I have been in Europe and Buller's second volume has appeared that this is not *Dacryomyces deliquescens* of English tradition and of Buller's book. The curious oidium spores of the English plant which are first shown in Buller's book to be on separate bodies from the basidia bearing spore bodies are entirely different from these spores. I do not believe we have the English plant with us, though both countries apply the name *Dacryomyces deliquescens* to their respective plants. In English tradition (started by Berkeley) this oidium form which is deep orange is called *Dacryomyces*

stellatus 'Nees.' That is a taxonomic mistake, for the Neesian plant was shown with furcate basidia and it is the common species of Sweden better called *Dacryomyces abietinus* " Mycol. Notes 69: 1211. July 1923.

Dacryomyces minor Pk.—The note in the Third Supplementary list was published in Mycol. Notes 67: 1161. July 1922, as "Note 1130."

Dacryomyces sp.—"A minute *Dacryomyces* from Roy Latham, New York. Mr. Latham sends us decorticate wood, 'a very minute Tremella-like plant.' Mr. Latham has good eyes, for I cannot see it even with a hand lens, neither dried nor soaked. But a scraping under the microscope shows a definite little species of *Dacryomyces*, typical as to basidia and appearance, but no spores found. Its color is pale yellow. I am afraid it is too small to name, though formidable Latin names are applied to more minute plants." Reported by Dr. Lloyd in Mycol. Notes 69: 1218. July 1923.

THELEPHORACEAE

Stereum lobatum (Kuntze) Fr.—*Stereum versicolor* Fr. of the Preliminary list and *Stereum fasciatum* Schw. of the First Supplementary list should be referred to this species.

POLYPORACEAE

Fomes lucidus (Leyss.) Fr.—On *Acer rubrum* at Greenport; determined by Dr. Lloyd, and listed in Mycol. Notes 69: 1188. July 1923.

Polyporus circinatus Fr.—Earth in dry woods at Mattituck; listed in Lloyd's Mycol. Notes 69: 1188. July 1923.

Polyporus cristatus (Pers.) Fr.—Greenport on *Quercus alba*; listed in Lloyd's Mycol. Notes 67: 1161. July 1922.

Polyporus Spraguei B. & C.—"Note 1109. *Polyporus Spraguei* from Roy Latham, New York. My first impression was that this was not *Spraguei* for I associate a hard, rigid context with the species and this is rather soft and crumbly. I do not find any other difference, however, and to eye it is exactly *Spraguei*." Lloyd's Mycol. Notes 67: 1161. July 1922.

Polystictus focicola B. & C.—The note in the Third Supplementary list was published in Mycol. Notes 67: 1164. July 1922, as "Note 1114."

Polystictus perennis (L.) Fr.—Greenport. Listed in Lloyd's Mycol. Notes 69: 1188. July 1923.

Poria flavescens (Schw.) Cke.—Orient on *Juniperus virginiana*; determined by Dr. E. A. Burt.

Poria viticola (Schw.) Cke.—Orient on *Platanus occidentalis* and Greenport on *Lyonia ligustrina*; determined by Prof. Dearness.

Trametes protracta Fr.—Gardiner's Island on log of *Pinus rigida*; listed in Lloyd's Mycol. Notes 69: 1188. July 1923.

Trametes pusilla Lloyd.—The note in the Third Supplementary list was published in Mycol. Notes 69: 1207. July 1923, as "Note 1148."

AGARICACEAE

Lenzites betulina (L.) Fr.—Greenport on *Quercus stellata*; determined by Dr. Lloyd who says, "Your specimen is what is called [Lenzites] *flaccida* (Bull.) Fr."

Mycena haematopa Berk.—Coniferous wood at Orient; determined by Prof. Dearness.

Pleurotus approximans Pk.—Orient on *Baccharis halimifolia*; determined by Prof. Dearness.

Pleurotus niger Schw.—"Note 1179. *Pleurotus niger* from Roy Latham, New York. This would have been of much interest to me years ago, when I was working on agarics. I could never understand why I never found *Pleurotus niger* while the similar little *Pleurotus striatulus* was so frequent. *Pleurotus niger* is truly a black plant with black gills and globose, hyaline 4 mic. spores. The gill margins have large white cystidia (or crystals perhaps)." Lloyd's Mycol. Notes 69: 1211. July 1923.

Psilocybe uda (Pers.) Fr.—Sphagnum at Greenport; determined by Prof. Dearness.

LICHENES

Blastenia ferruginea (Huds.) Arn., var. *discolor* (Willey), n. comb.—Orient on *Juniperus virginiana*, April 25, 1910 and January 9, 1911; determined by Dr. Bruce Fink. Reported in the Preliminary list as *Lecanora* (§ *Callopisma*) *ferrugineum discolor* (Willey). (*Placodium ferrugineum discolor* Willey).

Ramalina Willeyi Howe—Orient on *Juniperus virginiana*, October 1, 1914; determined by Dr. R. Heber Howe, Jr.

HEPATICAE

Cephaloziella byssacea (Roth) Warnst.—Laurel; determined by Dr. Geo. H. Conklin.

MUSCI

Dicranum montanum Hedw.—Base of trees in swamp at Greenport; determined by Mr. Geo. B. Kaiser.

Eurhynchium rusciforme (Neck.) Milde—Gardiner's Island, rocks in a woodland stream; determined by Mr. Kaiser.

Orthotrichum Schimperi Hamm.—Orient on *Robinia Pseudo-Acacia*.

Orthotrichum strangulatum Sull., var.—Rock in woods at Gardiner's Island.

Platygyrium repens (Brid.) B. & S.—Base of trees at Greenport; determined by Mr. Kaiser.

PTERIDOPHYTA

Lycopodium tristachyum Pursh—Orient Point, September 2, 1910.

SPERMATOPHYTA

Potamogeton foliosus Raf.—In a pond at Mattituck; determined at Bureau of Plant Industry, Washington.

Potamogeton hybridus Sheld.—In a pond at Southold; determined at Bureau of Plant Industry.

Festuca Shortii Kunth—The specimen reported in the Third Supplementary list from wet woods at Mattituck; should be referred to *Festuca nutans* Spreng.

Glyceria canadensis (Mx.) Trin.—Swamp at Mattituck; determined by Mrs. Agnes Chase.

Panicum mattamuskeetense Ashe—Laurel; determined by Mrs. Chase.

Panicum Wrightianum Scribn.—Southold, the host of *Phyllachora puncta*. N. Y. State Mus. Bull. 243-244: 92. Issued May 15, 1923.

Setaria lutescens (Weigel) Hubbard—Sandy field at Laurel; determined by Mrs. Chase.

Carex Howei Mackenzie—Greenport in low wet woods; determined at N. Y. Botanical Garden.

Carex retroflexa Muhl.—Gardiner's Island in dry woods; determined at N. Y. Botanical Garden.

Xyris caroliniana Walt.—Sandy swamp at Laurel, August 17, 1923.

Spiranthes vernalis Engelm. & Gray—Peconic in low grassy fields; determined at N. Y. Botanical Garden.

Juglans nigra L.—One large tree in woods at Mattituck.

Chenopodium murale L.—Orient in waste ground; determined at N. Y. Botanical Garden.

Amaranthus caudatus L.—Occasional as a weed in cultivated and waste grounds at Orient; determined at N. Y. Botanical Garden.

Spergularia canadensis (Pers.) Don—“*Alsine canadensis* (Pers.) House; (*Are-naria canadensis* Pers.; *Spergularia borealis* Robinson)—A species of the northern shores of eastern America, which appears to reach its southern limit of distribution on Shelter Island, opposite Greenport, where collected by Dr. C. H. Peck in 1871 (State Herbarium).” N. Y. State Mus. Bull. 243-244: 57. Issued May 15, 1923.

Nymphozanthus avena (Ait.) Fernald—Swamp at Laurel, August 16, 1923.

Ranunculus laxicaulis (T. & G.) Darby—Mattituck in a swamp, September 1, 1923.

Arabis lyrata L.—Cultivated fields at Orient; determined at Bureau of Plant Industry.

Potentilla recta L.—Sandy fields at Laurel, July 16, 1923; and Orient, June 20, 1923.

Linum medium (Planch.) Britton—Dry woods at Southold; determined at Bureau of Plant Industry.

Myriophyllum tenellum Bigel.—Sandy shore of a large pond at Southold, August 20, 1923.

Cornus Amomum L.—“Border of swamp near Orient. Roy Latham, September 2.” N. Y. State Mus. Bull. 243-244: 57. Issued May 15, 1923.

Nymphoides lacunosum (Vent.) Fernald—In a pond at Southold, August 20, 1923.

Echium vulgare L.—Laurel in old pastures; determined at N. Y. Botanical Garden.

Mentha citrina Ehrh.—Greenport in waste places; determined at N. Y. Botanical Garden.

Limosella aquatica L., var. *tenuifolia* (Wolf.) Pers.—Fishers Island, no. 743. September 15, 1891. Rev. J. L. Zabriskie.

Jasione montana L.—Sandy fields and roadsides at Laurel, August 17, 1923; determined at Bureau of Plant Industry.

Artemisia Absinthium L.—Roadsides and waste places at Greenport; determined at N. Y. Botanical Garden.

Coreopsis rosea Nutt.—Sandy swamp at Laurel, August 16, 1923.

Eupatorium album L.—Sandy fields at Laurel; determined at Bureau of Plant Industry.

Heliospopsis helianthoides (L.) Sweet—Rich open woods at Mattituck, July 3, 1923. The plants not quite typical, some of the plants having leaves little rougher than usual.

Lactuca canadensis L., var. *montana* Britton—Cutchogue and Orient. Reported in the Second Supplementary list as *Lactuca canadensis*, var. *integrifolia* (Bigel.) Gray; which included *Lactuca canadensis*, var. *montana* Britton and *Lactuca sagittifolia* Ell. of the Preliminary list. A revised description of this variety is given by Dr. H. D. House, in N. Y. State Mus. Bull. 243-244: 58. Issued May 15, 1923. "Leaves thin, acuminate, pale beneath, tapering to a sessile sagittate-clasping base, the lower ones sparingly sinuate-toothed toward the base, the upper ones all entire; stem glabrous and glaucous; achenes black, oval, flattened, one-nerved on each face, finely pitted and transversely wrinkled, the beak about equal to the body of the achene in length; pappus white; flowers apparently yellow.

"This is doubtless the plant reported by Burnham and Latham (Torreya 14: 252. 1914) as *L. sagittifolia* Ell., which is not uncommon in southern New York. The plants here described were collected by Roy Latham, at Cutchogue, town of Southold, and presented to the state herbarium."

Xanthium italicum Mor.—Locally common in cultivated and waste grounds at Greenport; determined at N. Y. Botanical Garden.

This supplementary list brings the total number of species reported by the authors from the town of Southold to:—Insect Galls, 95; Slime-molds, 20; Algae, 102; Fungi, 928; Lichens, 127; Hepatics, 32; Mosses, 111; Ferns, 37; Flowering Plants, 1160.

THE FLORA OF THE TOWN OF SOUTHOLD, LONG ISLAND AND GARDINER'S ISLAND, NEW YORK

STEWART H. BURNHAM AND ROY A. LATHAM

Fourth Supplementary List*

INSECT GALLS

Neuroterus noxiosus Bass.—Leaves of *Quercus Prinus* at Greenport; determined by Dr. M. D. Leonard.

Phyllocoptes quadripes Shim.—Leaves of *Acer rubrum* at Greenport; determined by Dr. Leonard.

MYXOMYCETES

Badhamia rubiginosa (Chev.) Rost.—Old leaves; determined by Prof. John Dearnness.

Clathroptychium rugulosum (Wallr.) Rost.—Orient on bark of *Juniperus virginiana*; determined by Prof. Dearnness.

Cribaria rufa (Roth) Rost.—Old wood at Southold; determined by Prof. Dearnness.

Hemitrichia vesparium (Batsch) Macbr.—Greenport; determined by Prof. Dearnness.

Stemonitis splendens Rost.—Rich woods on rotten wood at Greenport; determined by Prof. Dearnness.

EUPHYCEAE

Lithothamnion polymorphum (L.) Aresch.—On stones in the Sound at Orient; determined by Dr. R. W. Miner.

PHYCOMYCETES

Aspergillus candidus Link—Orient on dead plants; determined by Prof. Dearnness.

Peronospora Arthurii Farl.—On *Oenothera*, Southold; determined by Prof. Dearnness.

ASCOMYCETES (excluding PYRENOMYCETES)

Aleuria repanda (Pers.) Gill.—Inside woodpecker's hole of an apple tree at Greenport; determined by Prof. Dearnness.

Ascobolus Crouani Boud.—Old stems of Brussels Sprouts, *Brassica oleracea gemmifera* at Orient; determined by Prof. Dearnness.

* The Preliminary flora was published in *Torreya* 14: 201-225, Nov. 1914 and 229-254, Dec. 1914. The First Supplementary list was published in *Torreya* 17: 111-122, July 1917. The Second Supplementary list was published in *Torreya* 21: 1-11, Jan.-Feb. 1921 and 28-33, March-April 1921. The Third Supplementary list was published in *Torreya* 23: 3-9, Jan.-Feb. 1923 and 25-31, March-April 1923.

